

**1.2.1 No of Add on /Certificate/value added programs offered during last five years**

| Year   | 2023-24 | 2022-23 | 2021-22 | 2020-21 | 2019-20 |
|--------|---------|---------|---------|---------|---------|
| Number | 11      | 12      | 11      | 09      | 11      |
| Total  | 54      |         |         |         |         |

**Link for supporting documents**

| S.NO | Description                      | Link |
|------|----------------------------------|------|
| 1    | Certificate of Head of Institute | VIEW |
| 2    | Academic year 2023-24            | VIEW |
| 3    | Academic year 2022-23            | VIEW |
| 4    | Academic year 2021-22            | VIEW |
| 5    | Academic year 2020-21            | VIEW |
| 6    | Academic year 2019-20            | VIEW |

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**TO WHOM SO EVER IT MAY CONCERN**

This certifies that the specifics of the value-added/ add-on/ certified course that have been offered over the previous five years are

| Year   | 2023-24 | 2022-23 | 2021-22 | 2020-21 | 2019-20 |
|--------|---------|---------|---------|---------|---------|
| Number | 11      | 12      | 11      | 09      | 11      |
| Total  | 54      |         |         |         |         |

These value Added /Add on/ Certified Courses Conducted by various Departments of our institute are not part of Curriculum Prescribed by IKGPTU jalandhur

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### 1.2.1 No of value Added /Add on/ certified programs offered during last five years

| ACADEMIC YEAR 2023-24 |                                                        |             |                  |                    |                                 |
|-----------------------|--------------------------------------------------------|-------------|------------------|--------------------|---------------------------------|
| S.NO                  | NAME OF VALUE ADDED/ADD ON /CERTIFIED PROGRAMS OFFERED | COURSE CODE | YEAR OF OFFERING | DURATION OF COURSE | NO OF STUDENTS ENROLLED IN YEAR |
| 1                     | NANOMATERIALS AND NANOTECHNOLOGY                       | VAIET042    | 2023-24          | 45HRS              | 30                              |
| 2                     | RENEWABLE ENERGY RESOURCES                             | VAIET043    | 2023-24          | 45HRS              | 22                              |
| 3                     | PLC( SOFTWARE AND HARDWARE)                            | VAIET034    | 2023-24          | 45HRS              | 17                              |
| 4                     | CERTIFIED COURSE IN LABOR CODES                        | VAIET044    | 2023-24          | 45HRS              | 28                              |
| 5                     | REVIT ARCHITECTURE                                     | VAIET045    | 2023-24          | 45HRS              | 23                              |
| 6                     | ADOBE TOOLS                                            | VAIET046    | 2023-24          | 45HRS              | 17                              |
| 7                     | BUSINESS FINANCE                                       | VAIET047    | 2023-24          | 45HRS              | 24                              |
| 8                     | LEARNING AND EMPLOYABILITY ADVANCED PROGRAMME          | VAIET048    | 2023-24          | 45HRS              | 25                              |
| 9                     | EMOTIONAL INTELLIGENCE                                 | VAIET049    | 2023-24          | 45HRS              | 18                              |
| 10                    | ADVANCE DATA MINING                                    | VAIET050    | 2023-24          | 45HRS              | 15                              |
| 11                    | NANOSENSORS AND DEVICES                                | VAIET042    | 2023-24          | 45HRS              | 30                              |
|                       |                                                        |             |                  |                    |                                 |

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### 1.2.1 No of value Added /Add on/ certified programs offered during last five years

| ACADEMIC YEAR 2022-23 |                                                        |             |                  |                    |                                 |
|-----------------------|--------------------------------------------------------|-------------|------------------|--------------------|---------------------------------|
| S.NO                  | NAME OF VALUE ADDED/ADD ON /CERTIFIED PROGRAMS OFFERED | COURSE CODE | YEAR OF OFFERING | DURATION OF COURSE | NO OF STUDENTS ENROLLED IN YEAR |
| 1                     | POWER AUTOMATION                                       | VAIET032    | 2022-23          | 45HRS              | 16                              |
| 2                     | BASIC INDUST AUTOMATION                                | VAIET033    | 2022-23          | 45HRS              | 17                              |
| 3                     | PLC (SOFTWARE AND HARDWARE)                            | VAIET034    | 2022-23          | 45HRS              | 17                              |
| 4                     | INTRO TO GOOD LABORATORY PRACTICES                     | VAIET035    | 2022-23          | 45HRS              | 18                              |
| 5                     | LAMP(linux, apache,Mysql,PHP)                          | VAIET036    | 2022-23          | 45HRS              | 20                              |
| 6                     | VISION ROBOTICS                                        | VAIET037    | 2022-23          | 45HRS              | 20                              |
| 7                     | SIMULATION OF ELECTRIC CIRCUITS                        | VAIET038    | 2022-23          | 45HRS              | 22                              |
| 8                     | 2D AND 3D MODELLING                                    | VAIET024    | 2022-23          | 45HRS              | 20                              |
| 9                     | KNOWLEDGE MANAGEMENT                                   | VAIET039    | 2022-23          | 45HRS              | 22                              |
| 10                    | WEBPRENEURSHIP                                         | VAIET040    | 2022-23          | 45HRS              | 20                              |
| 11                    | ETHICS OF DATA SCIENCES                                | VAIET041    | 2022-23          | 45HRS              | 26                              |
| 12                    | MOBILE APP DEVELOPMENT                                 | VAIET023    | 2022-23          | 45HRS              | 22                              |

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### 1.2.1 No of value Added /Add on/ certified programs offered during last five years

| ACADEMIC YEAR 2021-22 |                                                        |             |                  |                    |                                 |
|-----------------------|--------------------------------------------------------|-------------|------------------|--------------------|---------------------------------|
| S.NO                  | NAME OF VALUE ADDED/ADD ON /CERTIFIED PROGRAMS OFFERED | COURSE CODE | YEAR OF OFFERING | DURATION OF COURSE | NO OF STUDENTS ENROLLED IN YEAR |
| 1                     | CALIBRATION AND MEASUREMENT                            | VAIET021    | 2021-22          | 45HRS              | 16                              |
| 2                     | PARALLEL PROGRAMMING                                   | VAIET022    | 2021-22          | 45HRS              | 15                              |
| 3                     | MOBILE WEB DEVELOPMENT                                 | VAIET023    | 2021-22          | 45HRS              | 20                              |
| 4                     | 2D AND 3D MODELLING IN SOLIDS                          | VAIET024    | 2021-22          | 45HRS              | 20                              |
| 5                     | DEEP LEARNING                                          | VAIET025    | 2021-22          | 45HRS              | 13                              |
| 6                     | ETHICAL HACKING                                        | VAIET026    | 2021-22          | 45HRS              | 15                              |
| 7                     | SALES PROMOTION MANAGEMENT                             | VAIET027    | 2021-22          | 45HRS              | 15                              |
| 8                     | STRESS MANAGEMENT                                      | VAIET028    | 2021-22          | 45HRS              | 16                              |
| 9                     | STRUCTURAL ELUCIDATION                                 | VAIET029    | 2021-22          | 45HRS              | 20                              |
| 10                    | ANALOG ICS                                             | VAIET030    | 2021-22          | 45HRS              | 20                              |
| 11                    | ADVANCE COMPUTER APPLICATIONS                          | VAIET031    | 2021-22          | 45HRS              | 20                              |
|                       |                                                        |             |                  |                    |                                 |

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### 1.2.1 No of value Added /Add on/ certified programs offered during last five years

| ACADEMIC YEAR 2020-21 |                                                        |             |                  |                    |                                 |
|-----------------------|--------------------------------------------------------|-------------|------------------|--------------------|---------------------------------|
| S.NO                  | NAME OF VALUE ADDED/ADD ON /CERTIFIED PROGRAMS OFFERED | COURSE CODE | YEAR OF OFFERING | DURATION OF COURSE | NO OF STUDENTS ENROLLED IN YEAR |
| 1                     | GIS                                                    | VAIET12     | 2020-21          | 45HRS              | 15                              |
| 2                     | BIOLOGY OF ENGINEERS                                   | VAIET13     | 2020-21          | 45HRS              | 18                              |
| 3                     | BIG DATA ANALYSIS                                      | VAIET14     | 2020-21          | 45HRS              | 25                              |
| 4                     | SELF MANAGEMENT                                        | VAIET15     | 2020-21          | 45HRS              | 18                              |
| 5                     | STAAD PRO                                              | VAIET16     | 2020-21          | 45HRS              | 25                              |
| 6                     | CRYPTO CURRENCY                                        | VAIET17     | 2020-21          | 45HRS              | 25                              |
| 7                     | WIND ENERGY                                            | VAIET18     | 2020-21          | 45HRS              | 20                              |
| 8                     | MATERIAL PROCESSING                                    | VAIET19     | 2020-21          | 45HRS              | 26                              |
| 9                     | ESTIMATION OF REINFORCEMENT                            | VAIET20     | 2020-21          | 45HRS              | 13                              |

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### 1.2.1 No of value Added /Add on/ certified programs offered during last five years

| ACADEMIC YEAR 2019-20 |                                                        |             |                  |                    |                                 |
|-----------------------|--------------------------------------------------------|-------------|------------------|--------------------|---------------------------------|
| S.NO                  | NAME OF VALUE ADDED/ADD ON /CERTIFIED PROGRAMS OFFERED | COURSE CODE | YEAR OF OFFERING | DURATION OF COURSE | NO OF STUDENTS ENROLLED IN YEAR |
| 1                     | FAULT ANALYSIS AT HOME                                 | VAIET01     | 2019-20          | 45HRS              | 20                              |
| 2                     | CALIBRATION AND MEASUREMENT                            | VAIET02     | 2019-20          | 45HRS              | 16                              |
| 3                     | COURSE IN ADVERTISING                                  | VAIET03     | 2019-20          | 45HRS              | 35                              |
| 4                     | PROJECT PLANNING                                       | VAIET04     | 2019-20          | 45HRS              | 22                              |
| 5                     | MOTIVATIONAL ENHANCEMENT                               | VAIET05     | 2019-20          | 45HRS              | 20                              |
| 6                     | ACADEMIC RESEARCH AND REPORT WRITING                   | VAIET06     | 2019-20          | 45HRS              | 29                              |
| 7                     | BASICS OF IOT                                          | VAIET07     | 2019-20          | 45HRS              | 17                              |
| 8                     | PHYSICS MAGIC OF MATERIALS                             | VAIET08     | 2019-20          | 45HRS              | 35                              |
| 9                     | CLOUD INVENTOR                                         | VAIET09     | 2019-20          | 45HRS              | 11                              |
| 10                    | CLIMATE CHANGE                                         | VAIET10     | 2019-20          | 45HRS              | 37                              |
| 11                    | MAKING AND MAINTENANCE OF ELECTRICAL APPLIANCES        | VAIET11     | 2019-20          | 45HRS              | 45                              |
|                       |                                                        |             |                  |                    |                                 |

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### 1.2.1 QnM Number of Add on /Certificate/Value added programs offered during 2023-24

| Name of Certificate/ Value added course offered and online courses of OOCs, SWAYAM, NPTEL etc. where the students of the institution have enrolled and successfully completed | Course Code | Period (from date - to date) | Duration of course | Number of students enrolled in the year | Link                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------|--------------------|-----------------------------------------|----------------------|
| NANOMATERIALS AND NANOTECHNOLOGY                                                                                                                                              | VAIET042    | 09/8/2023 to 15/11/2023      | 45HRS              | 30                                      | <a href="#">view</a> |
| RENEWABLE ENERGY RESOURCES                                                                                                                                                    | VAIET043    | 17/08/2023 to 24/11/2023     | 45HRS              | 22                                      | <a href="#">view</a> |
| PLC( SOFTWARE AND HARDWARE)                                                                                                                                                   | VAIET034    | 24/07/2023 to 30/10/2023     | 45HRS              | 17                                      | <a href="#">view</a> |
| CERTIFIED COURSE IN LABOR CODES                                                                                                                                               | VAIET044    | 10/8/2023 to 16/11/2023      | 45HRS              | 28                                      | <a href="#">view</a> |
| REVIT ARCHITECTURE                                                                                                                                                            | VAIET045    | 20/07/2023 to 26/10/2023     | 45HRS              | 23                                      | <a href="#">view</a> |
| ADOBE TOOLS                                                                                                                                                                   | VAIET046    | 21/08/2023 to 27/11/2023     | 45HRS              | 17                                      | <a href="#">view</a> |
| BUSINESS FINANCE                                                                                                                                                              | VAIET047    | 23/01/24 to 23/4/2024        | 45HRS              | 24                                      | <a href="#">view</a> |
| LEARNING AND EMPLOYABILITY ADVANCED PROGRAMME                                                                                                                                 | VAIET048    | 05/2/2024 to 13/05/2024      | 45HRS              | 25                                      | <a href="#">view</a> |
| EMOTIONAL INTELLIGENCE                                                                                                                                                        | VAIET049    | 18/1/2024 to 25/04/2024      | 45HRS              | 18                                      | <a href="#">view</a> |
| ADVANCE DATA MINING                                                                                                                                                           | VAIET050    | 8/1/2024 to 15/04/2024       | 45HRS              | 15                                      | <a href="#">view</a> |
| NANOSENSORS AND DEVICES                                                                                                                                                       | VAIET042    | 15/01/2024 TO 22/04/2024     | 45HRS              | 30                                      | <a href="#">view</a> |

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2023-24**

| S.NO  | PROGRAM NAME | TOTAL NO OF STUDENTS | NO OF STUDENTS ENROLLED WITHOUT REPEAT |
|-------|--------------|----------------------|----------------------------------------|
| 1     | B.TECH CSE   | 97                   | 95                                     |
| 2     | B.TECH ECE   | 0                    | 0                                      |
| 3     | B.TECH EE    | 11                   | 11                                     |
| 4     | B.TECH CIVIL | 09                   | 09                                     |
| 5     | B.TECH ME    | 3                    | 3                                      |
| 6     | B.ARCH       | 23                   | 23                                     |
| 7     | M.TECH CSE   | 08                   | 08                                     |
| 8     | M.TECH EE    | 16                   | 16                                     |
| 9     | MBA          | 50                   | 49                                     |
| 10    | MCA          | 27                   | 20                                     |
| 11    | MARCH        | 0                    | 0                                      |
| TOTAL |              | 244                  | 234                                    |

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2023-24**

| S.NO | ROLL NO | NAME             | BRANCH     | YEAR | VALUE ADDED COURSE  |
|------|---------|------------------|------------|------|---------------------|
| 1    | 2005288 | AMANDEEP SINGH   | B.Tech CSE | 4TH  | ABODE TOOLS         |
| 2    | 2005289 | ANIKET KUMAR     | B.Tech CSE | 4TH  | ABODE TOOLS         |
| 3    | 2005290 | ANSHDEEP BHATHAL | B.Tech CSE | 4TH  | ABODE TOOLS         |
| 4    | 2005291 | ARSHDEEP SINGH   | B.Tech CSE | 4TH  | ABODE TOOLS         |
| 5    | 2005292 | GAGANDEEP        | B.Tech CSE | 4TH  | ABODE TOOLS         |
| 6    | 2005293 | GURINDER KAUR    | B.Tech CSE | 4TH  | ABODE TOOLS         |
| 7    | 2005298 | POOJA            | B.Tech CSE | 4TH  | ABODE TOOLS         |
| 8    | 2005299 | RITIKA THAKUR    | B.Tech CSE | 4TH  | ABODE TOOLS         |
| 9    | 2005300 | ROSHAN KUMAR     | B.Tech CSE | 4TH  | ABODE TOOLS         |
| 10   | 2005301 | SONU             | B.Tech CSE | 4TH  | ABODE TOOLS         |
| 11   | 2303685 | MANSI KATOCH     | MCA        | 1ST  | ABODE TOOLS         |
| 12   | 2303680 | ANJALI           | MCA        | 1ST  | ABODE TOOLS         |
| 13   | 2303681 | JASPREET KAUR    | MCA        | 1ST  | ABODE TOOLS         |
| 14   | 2303682 | JATINDER KAUR    | MCA        | 1ST  | ABODE TOOLS         |
| 15   | 2303683 | KULWINDER SINGH  | MCA        | 1ST  | ABODE TOOLS         |
| 16   | 2303688 | RAJNI            | MCA        | 1ST  | ABODE TOOLS         |
| 17   | 2303689 | RUPINDER KAUR    | MCA        | 1ST  | ABODE TOOLS         |
| 18   | 2303680 | ANJALI           | MCA        | 1ST  | Advance data mining |
| 19   | 2303681 | JASPREET KAUR    | MCA        | 1ST  | Advance data mining |
| 20   | 2303682 | JATINDER KAUR    | MCA        | 1ST  | Advance data mining |
| 21   | 2303683 | KULWINDER SINGH  | MCA        | 1ST  | Advance data mining |
| 22   | 2303685 | MANSI KATOCH     | MCA        | 1ST  | Advance data mining |
| 23   | 2303686 | MUSKAN           | MCA        | 1ST  | Advance data mining |
| 24   | 2303687 | NAVJOT KAUR      | MCA        | 1ST  | Advance data mining |
| 25   | 2303688 | RAJNI            | MCA        | 1ST  | Advance data mining |
| 26   | 2303689 | RUPINDER KAUR    | MCA        | 1ST  | Advance data        |



|    |         |                                |     |     |                     |
|----|---------|--------------------------------|-----|-----|---------------------|
|    |         |                                |     |     | mining              |
| 27 | 2204505 | AJAY PRATAP SINGH              | MCA | 2ND | Advance data mining |
| 28 | 2204506 | BAIVHAB KOUNDAL                | MCA | 2ND | Advance data mining |
| 29 | 2204507 | GURVINDER SINGH                | MCA | 2ND | Advance data mining |
| 30 | 2204509 | MANU MINHAS                    | MCA | 2ND | Advance data mining |
| 31 | 2204513 | POOJA RANI                     | MCA | 2ND | Advance data mining |
| 32 | 2204514 | RAJAT KUMAR                    | MCA | 2ND | Advance data mining |
| 33 | 2204516 | ROHIT KUMAR                    | MCA | 2ND | Advance data mining |
| 34 | 2204519 | SWAPNIL                        | MCA | 2ND | Advance data mining |
| 35 | 2204521 | TANUJ BHATIA                   | MCA | 2ND | Advance data mining |
| 36 | 2204522 | UTKARSH                        | MCA | 2ND | Advance data mining |
| 37 | 2204523 | VEER KAUR                      | MCA | 2ND | Advance data mining |
| 38 | 2339641 | AADIL BASHIR                   | MBA | 1ST | Business Finance    |
| 39 | 2303659 | AMANPREET KAUR                 | MBA | 1ST | Business Finance    |
| 40 | 2303659 | AMANPREET KAUR                 | MBA | 1ST | Business Finance    |
| 41 | 2303662 | AVINASH SINGH                  | MBA | 1ST | Business Finance    |
| 42 | 2303663 | BHATTAL PARAMINDER KAUR        | MBA | 1ST | Business Finance    |
| 43 | 2339642 | FAIKA MUKHTAR                  | MBA | 1ST | Business Finance    |
| 44 | 2303664 | GOVIND GIRI                    | MBA | 1ST | Business Finance    |
| 45 | 2303666 | HARKRISHAN                     | MBA | 1ST | Business Finance    |
| 46 | 2303667 | KARAN KUMAR                    | MBA | 1ST | Business Finance    |
| 47 | 2339643 | KHANDOKER MD ABUL HASNAT FAHIM | MBA | 1ST | Business Finance    |
| 48 | 2303668 | KIRANDEEP KAUR                 | MBA | 1ST | Business Finance    |
| 49 | 2303669 | KIRANPREET KAUR                | MBA | 1ST | Business Finance    |
| 50 | 2303671 | MANDEEP KAUR                   | MBA | 1ST | Business Finance    |
| 51 | 2303670 | MANDEEP KAUR                   | MBA | 1ST | Business Finance    |
| 52 | 2303672 | MANISHA                        | MBA | 1ST | Business Finance    |
| 53 | 2339644 | MIR SHEEZAN HANIEF             | MBA | 1st | Business Finance    |



|    |         |                  |     |                 |                                |
|----|---------|------------------|-----|-----------------|--------------------------------|
| 54 | 2303674 | MUSKAN           | MBA | 1st             | Business Finance               |
| 55 | 2303675 | PANKAJ KUMAR     | MBA | 1st             | Business Finance               |
| 56 | 2303676 | SHIVA MAHAJAN    | MBA | 1st             | Business Finance               |
| 57 | 2339645 | SHIVANSH PAHUJA  | MBA | 1st             | Business Finance               |
| 58 | 2303679 | VISHAL THAKUR    | MBA | 1st             | Business Finance               |
| 59 | 2303677 | SIMRANJEET KAUR  | MBA | 1ST             | Business Finance               |
| 60 | 2303673 | MANPREET         | MBA | 1ST             | Business Finance               |
| 61 | 2303678 | SYED WAJID RIZVI | MBA | 1 <sup>ST</sup> | Business Finance               |
| 62 | 2204453 | AABID YOUSUF     | MBA | 2ND             | Certified course on labor code |
| 63 | 2204454 | ABHISHEK KUMAR   | MBA | 2ND             | Certified course on labor code |
| 64 | 2204455 | ABHISHEK SHARMA  | MBA | 2ND             | Certified course on labor code |
| 65 | 2204457 | AJAY KUMAR       | MBA | 2ND             | Certified course on labor code |
| 66 | 2204460 | ANNU             | MBA | 2ND             | Certified course on labor code |
| 67 | 2204461 | ARSHVIR KAUR     | MBA | 2ND             | Certified course on labor code |
| 68 | 2204462 | BAZILA MUSHTAQ   | MBA | 2ND             | Certified course on labor code |
| 69 | 2204464 | DEEPAI           | MBA | 2ND             | Certified course on labor code |
| 70 | 2204468 | GAGANDEEP        | MBA | 2ND             | Certified course on labor code |
| 71 | 2204472 | IMTIYAZ AKRAM    | MBA | 2ND             | Certified course on labor code |
| 72 | 2204473 | JATIN            | MBA | 2ND             | Certified course on labor code |
| 73 | 2204475 | KASHISH BAWA     | MBA | 2ND             | Certified course on labor code |
| 74 | 2204476 | KHUSHBOO         | MBA | 2ND             | Certified course on labor code |
| 75 | 2204474 | KARAN            | MBA | 2ND             | Certified course on labor code |
| 76 | 2204477 | MANDEEP SINGH    | MBA | 2ND             | Certified course on labor code |
| 77 | 2204480 | NAVEEN           | MBA | 2ND             | Certified course on labor code |
| 78 | 2204481 | NAVNEET KAUR     | MBA | 2ND             | Certified course               |

|     |         |                   |            |     |                                |
|-----|---------|-------------------|------------|-----|--------------------------------|
|     |         |                   |            |     | on labor code                  |
| 79  | 2204484 | PARDEEP SINGH     | MBA        | 2ND | Certified course on labor code |
| 80  | 2204485 | PAYAL             | MBA        | 2ND | Certified course on labor code |
| 81  | 2204493 | SHARANJEET KAUR   | MBA        | 2ND | Certified course on labor code |
| 82  | 2204495 | SIMRANJIT KAUR    | MBA        | 2ND | Certified course on labor code |
| 83  | 2204496 | SOURAV SHARMA     | MBA        | 2ND | Certified course on labor code |
| 84  | 2204497 | SUMIT KUMAR       | MBA        | 2ND | Certified course on labor code |
| 85  | 2204394 | ABHISHEK KAUSHAL  | B.Tech CSE | 2ND | Emotional Intelligence         |
| 86  | 2204396 | AKASH DUTTA       | B.Tech CSE | 2ND | Emotional Intelligence         |
| 87  | 2204398 | ANCHAL            | B.Tech CSE | 2ND | Emotional Intelligence         |
| 88  | 2204399 | ANJALI THAKUR     | B.Tech CSE | 2ND | Emotional Intelligence         |
| 89  | 2204400 | ANKIT KUMAR       | B.Tech CSE | 2ND | Emotional Intelligence         |
| 90  | 2204401 | ARJIT             | B.Tech CSE | 2ND | Emotional Intelligence         |
| 91  | 2204402 | ARPIT CHANDAN     | B.Tech CSE | 2ND | Emotional Intelligence         |
| 92  | 2204403 | ARSHDEEP SINGH    | B.Tech CSE | 2ND | Emotional Intelligence         |
| 93  | 2204407 | BASIT HUSSAIN     | B.Tech CSE | 2ND | Emotional Intelligence         |
| 94  | 2204410 | CHANCHAL          | B.Tech CSE | 2ND | Emotional Intelligence         |
| 95  | 2204418 | KANISHQ           | B.Tech CSE | 2ND | Emotional Intelligence         |
| 96  | 2204421 | MANSI             | B.Tech CSE | 2ND | Emotional Intelligence         |
| 97  | 2204422 | MASUD BEEN RASHID | B.Tech CSE | 2ND | Emotional Intelligence         |
| 98  | 2204426 | NITISH BHARDWAJ   | B.Tech CSE | 2ND | Emotional Intelligence         |
| 99  | 2204428 | PRABHJOT KAUR     | B.Tech CSE | 2ND | Emotional Intelligence         |
| 100 | 2204550 | YUVRAJ SINGH      | B.Tech CSE | 2ND | Emotional Intelligence         |
| 101 | 2204441 | TANVEER SINGH     | B.Tech CSE | 2ND | Emotional Intelligence         |
| 102 | 2204443 | TARUN KUMAR       | B.Tech CSE | 2ND | Emotional                      |

|     |         |                   |                |     | Intelligence               |
|-----|---------|-------------------|----------------|-----|----------------------------|
| 103 | 2005292 | GAGANDEEP         | B.TECH CSE     | 4TH | LEARNING AND EMPLOYABILITY |
| 104 | 2005293 | GURINDER KAUR     | B.TECH CSE     | 4TH | LEARNING AND EMPLOYABILITY |
| 105 | 2005294 | GURPAL SINGH      | B.TECH CSE     | 4TH | LEARNING AND EMPLOYABILITY |
| 106 | 2005295 | GURPREET KAUR     | B. TECH CSE    | 4TH | LEARNING AND EMPLOYABILITY |
| 107 | 2005297 | LOVEPREET SINGH   | B.TECH CSE     | 4TH | LEARNING AND EMPLOYABILITY |
| 108 | 2005304 | VISHAVJEET SINGH  | B.TECH EE      | 4TH | LEARNING AND EMPLOYABILITY |
| 109 | 2105117 | AAMIR MAJEED WANI | B-TECH EE LEET | 4TH | LEARNING AND EMPLOYABILITY |
| 110 | 2105118 | AMAN              | B-TECH EE LEET | 4TH | LEARNING AND EMPLOYABILITY |
| 111 | 2105119 | FIZA JAN          | B-TECH EE LEET | 4TH | LEARNING AND EMPLOYABILITY |
| 112 | 2105024 | AMIT VERMA        | B-TECH CSE     | 3RD | LEARNING AND EMPLOYABILITY |
| 113 | 2105025 | BASHAR HOSSEN     | B-TECH CSE     | 3RD | LEARNING AND EMPLOYABILITY |
| 114 | 2105031 | FAYSAL MONDAL     | B-TECH CSE     | 3RD | LEARNING AND EMPLOYABILITY |
| 115 | 2105027 | KANIKA            | B-TECH CSE     | 3RD | LEARNING AND EMPLOYABILITY |
| 116 | 2105035 | AVNEET KAUR       | B-TECH EE      | 3RD | LEARNING AND EMPLOYABILITY |
| 117 | 2105036 | CHARANJEET        | B-TECH EE      | 3RD | LEARNING AND EMPLOYABILITY |
| 118 | 2105037 | DAMANPREET SINGH  | B-TECH EE      | 3RD | LEARNING AND EMPLOYABILITY |
| 119 | 2105020 | JEETU KUMAR       | B-TECH CIVIL   | 3RD | LEARNING AND EMPLOYABILITY |
| 120 | 2105021 | NANCY MAHE        | B-TECH CIVIL   | 3RD | LEARNING AND EMPLOYABILITY |
| 121 | 2105022 | SUKHCHAIN SINGH   | B-TECH CIVIL   | 3RD | LEARNING AND EMPLOYABILITY |
| 122 | 2105023 | SUKHPREET SINGH   | B-TECH CIVIL   | 3RD | LEARNING AND EMPLOYABILITY |
| 123 | 2105107 | TOUKIR HOSSAIN    | B-TECH ME      | 3RD | LEARNING AND EMPLOYABILITY |
| 124 | 2204384 | FAYAZ AHMAD LONE  | BTCE           | 2ND | LEARNING AND EMPLOYABILITY |
| 125 | 2204389 | PARWINDER SINGH   | BTCE           | 2ND | LEARNING AND EMPLOYABILITY |
| 126 | 2204390 | SANCHAN           | BTCE           | 2ND | LEARNING AND               |

|     |         |                  |            |     |                                  |
|-----|---------|------------------|------------|-----|----------------------------------|
|     |         | KUMAR            |            |     | EMPLOYABILITY                    |
| 127 | 2204393 | ABHISHEK KAUSHAL | BTCSE      | 2ND | LEARNING AND EMPLOYABILITY       |
| 128 | 2303603 | ANCHAL           | B-TECH CSE | 1ST | Nanomaterials and Nanotechnology |
| 129 | 2339637 | ABHINANDAN       | B-TECH CSE | 1ST | Nanomaterials and Nanotechnology |
| 130 | 2303606 | AMANDEEP KAUR    | B-TECH CSE | 1ST | Nanomaterials and Nanotechnology |
| 131 | 2303607 | AMANJOT KAUR     | B-TECH CSE | 1ST | Nanomaterials and Nanotechnology |
| 132 | 2303609 | ANURAG RATURI    | B-TECH CSE | 1ST | Nanomaterials and Nanotechnology |
| 133 | 2303613 | ASHISH BADU      | B-TECH CSE | 1ST | Nanomaterials and Nanotechnology |
| 134 | 2303614 | BASANTI CHAND    | B-TECH CSE | 1ST | Nanomaterials and Nanotechnology |
| 135 | 2303615 | BIKRAMJEET SINGH | B-TECH CSE | 1ST | Nanomaterials and Nanotechnology |
| 136 | 2303622 | JIGYASA PANWAR   | B-TECH CSE | 1ST | Nanomaterials and Nanotechnology |
| 137 | 2303626 | KESHAV RAJ JOSHI | B-TECH CSE | 1ST | Nanomaterials and Nanotechnology |
| 138 | 2303627 | LAKSHIT SHARMA   | B-TECH CSE | 1ST | Nanomaterials and Nanotechnology |
| 139 | 2303628 | MANJIT KAUR      | B-TECH CSE | 1ST | Nanomaterials and Nanotechnology |
| 140 | 2303629 | MANPREET KAUR    | B-TECH CSE | 1ST | Nanomaterials and Nanotechnology |
| 141 | 2303630 | MD. NASIR UDDIN  | B-TECH CSE | 1ST | Nanomaterials and Nanotechnology |
| 142 | 2303635 | NAVNEET KAUR     | B-TECH CSE | 1ST | Nanomaterials and Nanotechnology |



# IET BHADDAL

Campus: Bhaddal, PO Mianpur, Distt. Ropar, Punjab-140108 (India)  
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## TECHNICAL CAMPUS ROPAR

|     |         |                      |              |     |                                  |
|-----|---------|----------------------|--------------|-----|----------------------------------|
| 143 | 2303636 | NISHANT BHARPAGA     | B-TECH CSE   | 1ST | Nanomaterials and Nanotechnology |
| 144 | 2303637 | NISHTHA              | B-TECH CSE   | 1ST | Nanomaterials and Nanotechnology |
| 145 | 2303638 | OWAIS RIYAZ          | B-TECH CSE   | 1ST | Nanomaterials and Nanotechnology |
| 146 | 2303643 | RAMANJIT KAUR        | B-TECH CSE   | 1ST | Nanomaterials and Nanotechnology |
| 147 | 2303644 | SAHAS CHANDAN        | B-TECH CSE   | 1ST | Nanomaterials and Nanotechnology |
| 148 | 2303645 | SAURAV DEVGAN        | B-TECH CSE   | 1ST | Nanomaterials and Nanotechnology |
| 149 | 2303646 | SHAH RAUFF UR RAHMAN | B-TECH CSE   | 1ST | Nanomaterials and Nanotechnology |
| 150 | 2303652 | VIVEK KUMAR          | B-TECH CSE   | 1ST | Nanomaterials and Nanotechnology |
| 151 | 2303653 | ZOYA PARWEEN         | B-TECH CSE   | 1ST | Nanomaterials and Nanotechnology |
| 152 | 2303602 | HAPPY KUMAR          | B-TECH CIVIL | 1ST | Nanomaterials and Nanotechnology |
| 153 | 2303690 | PARDEEP KUMAR        | B.TECH ME    | 1ST | Nanomaterials and Nanotechnology |
| 154 | 2303691 | SHISHIR BADHEN       | B.TECH ME    | 1ST | Nanomaterials and Nanotechnology |
| 155 | 2303657 | OM attri             | B.TECH EE    | 1ST | Nanomaterials and Nanotechnology |
| 156 | 2303656 | Mohd Atif            | B.TECH EE    | 1ST | Nanomaterials and Nanotechnology |
| 157 | 2303655 | Akash Kumar Tiwari   | B.TECH EE    | 1ST | Nanomaterials and Nanotechnology |
| 158 | 2303604 | ABHISHEK SAHORE      | B-TECH CSE   | 1ST | Nanosensor and Devices           |
| 159 | 2303605 | AKIB MIAH            | B-TECH CSE   | 1ST | Nanosensor and Devices           |



|     |         |                      |            |     |                        |
|-----|---------|----------------------|------------|-----|------------------------|
| 160 | 2339638 | AMIT KUMAR SAH       | B-TECH CSE | 1ST | Nanosensor and Devices |
| 161 | 2303610 | ARMAN KHAN           | B-TECH CSE | 1ST | Nanosensor and Devices |
| 162 | 2303611 | ARSHDEEP KAUR        | B-TECH CSE | 1ST | Nanosensor and Devices |
| 163 | 2303612 | ARSHPREET SINGH      | B-TECH CSE | 1ST | Nanosensor and Devices |
| 164 | 2339639 | AZAD HUSSAIN         | B-TECH CSE | 1ST | Nanosensor and Devices |
| 165 | 2303616 | CHAHIL               | B-TECH CSE | 1ST | Nanosensor and Devices |
| 166 | 2303617 | DIPUMONI BISWAS      | B-TECH CSE | 1ST | Nanosensor and Devices |
| 167 | 2303619 | GURPREET SINGH       | B-TECH CSE | 1ST | Nanosensor and Devices |
| 168 | 2303618 | GURPREET SINGH       | B-TECH CSE | 1ST | Nanosensor and Devices |
| 169 | 2303620 | GURPREET SINGH BAINS | B-TECH CSE | 1ST | Nanosensor and Devices |
| 170 | 2303621 | JASKARANJOT SINGH    | B-TECH CSE | 1ST | Nanosensor and Devices |
| 171 | 2303623 | KALA SINGH           | B-TECH CSE | 1ST | Nanosensor and Devices |
| 172 | 2303625 | KARANDEEP SINGH      | B-TECH CSE | 1ST | Nanosensor and Devices |
| 173 | 2303624 | KARANDEEP SINGH      | B-TECH CSE | 1ST | Nanosensor and Devices |
| 174 | 2339640 | MAYANK               | B-TECH CSE | 1ST | Nanosensor and Devices |
| 175 | 2303633 | MOSTAKIM BILLAH      | B-TECH CSE | 1ST | Nanosensor and Devices |
| 176 | 2303634 | NAEM HOSSEN          | B-TECH CSE | 1ST | Nanosensor and Devices |
| 177 | 2303639 | PARVEEN SINGH        | B-TECH CSE | 1ST | Nanosensor and Devices |
| 178 | 2303641 | RAJAN YADAV          | B-TECH CSE | 1ST | Nanosensor and Devices |
| 179 | 2303642 | RAKIB AHMED          | B-TECH CSE | 1ST | Nanosensor and Devices |
| 180 | 2303648 | SHIVANG              | B-TECH CSE | 1ST | Nanosensor and Devices |
| 181 | 2303649 | SOHAG ALI            | B-TECH CSE | 1ST | Nanosensor and Devices |
| 182 | 2303650 | TANMAY RANA          | B-TECH CSE | 1ST | Nanosensor and Devices |
| 183 | 2303651 | TUSHAR SEKHRI        | B-TECH CSE | 1ST | Nanosensor and Devices |





# IET BHADDAL

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## TECHNICAL CAMPUS ROPAR

|     |         |                     |            |     |                             |
|-----|---------|---------------------|------------|-----|-----------------------------|
| 184 | 2303654 | ABHAY TIWARI        | B.TECH EE  | 1ST | Nanosensor and Devices      |
| 185 | 2204573 | ABDUL MAJEED AKHOON | M.TECH CSE | 2ND | PLC( SOFTWARE AND HARDWARE) |
| 186 | 2204575 | AKASHDEEP SINGH     | M.TECH CSE | 2ND | PLC( SOFTWARE AND HARDWARE) |
| 187 | 2204576 | DEEPAK BAWA         | M.TECH CSE | 2ND | PLC( SOFTWARE AND HARDWARE) |
| 188 | 2204577 | DEEPIKA             | M.TECH CSE | 2ND | PLC( SOFTWARE AND HARDWARE) |
| 189 | 2204578 | MINAKSHI CHANDEL    | M.TECH CSE | 2ND | PLC( SOFTWARE AND HARDWARE) |
| 190 | 2204579 | RASIK GUPTA         | M.TECH CSE | 2ND | PLC( SOFTWARE AND HARDWARE) |
| 191 | 2204580 | SANDHYA VERMA       | M.TECH CSE | 2ND | PLC( SOFTWARE AND HARDWARE) |
| 192 | 2204581 | VISHAL RANA         | M.TECH CSE | 2ND | PLC( SOFTWARE AND HARDWARE) |
| 193 | 2204422 | MASUD BEEN RASHID   | B.Tech CSE | 2ND | PLC( SOFTWARE AND HARDWARE) |
| 194 | 2204426 | NITISH BHARDWAJ     | B.Tech CSE | 2ND | PLC( SOFTWARE AND HARDWARE) |
| 195 | 2204429 | PRABHJOT KAUR       | B.Tech CSE | 2ND | PLC( SOFTWARE AND HARDWARE) |
| 196 | 2204434 | SAKSHAM SHARMA      | B.Tech CSE | 2ND | PLC( SOFTWARE AND HARDWARE) |
| 197 | 2204435 | SARTHAK SHARMA      | B.Tech CSE | 2ND | PLC( SOFTWARE AND HARDWARE) |
| 198 | 2204436 | SATYAM              | B.Tech CSE | 2ND | PLC( SOFTWARE AND HARDWARE) |
| 199 | 2204437 | SIMRANJIT KAUR      | B.Tech CSE | 2ND | PLC( SOFTWARE AND HARDWARE) |
| 200 | 2204441 | TANVEER SINGH       | B.Tech CSE | 2ND | PLC( SOFTWARE AND HARDWARE) |
| 201 | 2204443 | TARUN KUMAR         | B.Tech CSE | 2ND | PLC( SOFTWARE AND HARDWARE) |
| 202 | 2303715 | GURDEEP SINGH       | M.TECH EE  | 1ST | Renewable Energy Resources  |
| 203 | 2303716 | MD ASHIK ALI        | M.TECH EE  | 1ST | Renewable Energy Resources  |
| 204 | 2303717 | MOHD. MUSSA         | M.TECH EE  | 1ST | Renewable Energy Resources  |
| 205 | 2303718 | RAMEEZ AFZAL        | M.TECH EE  | 1ST | Renewable Energy Resources  |
| 206 | 2303719 | SABA JAFRI          | M.TECH EE  | 1ST | Renewable Energy Resources  |
| 207 | 2303720 | SABHA KHATOON       | M.TECH EE  | 1ST | Renewable Energy Resources  |

|     |         |                  |              |     |                            |
|-----|---------|------------------|--------------|-----|----------------------------|
| 208 | 2303721 | ZABIR AHMED      | M.TECH EE    | 1ST | Renewable Energy Resources |
| 209 | 2204582 | AJAZ AHMAD GANAI | M.TECH EE    | 2ND | Renewable Energy Resources |
| 210 | 2204584 | ASIA HANIEF      | M.TECH EE    | 2ND | Renewable Energy Resources |
| 211 | 2204584 | BARKAT ALI LONE  | M.TECH EE    | 2ND | Renewable Energy Resources |
| 212 | 2204585 | GURSEWAK SINGH   | M.TECH EE    | 2ND | Renewable Energy Resources |
| 213 | 2204586 | HARPREET SINGH   | M.TECH EE    | 2ND | Renewable Energy Resources |
| 214 | 2204587 | JASHAN SHARMA    | M.TECH EE    | 2ND | Renewable Energy Resources |
| 215 | 2204588 | KARAN KATARIA    | M.TECH EE    | 2ND | Renewable Energy Resources |
| 216 | 2204589 | MANISH KUMAR     | M.TECH EE    | 2ND | Renewable Energy Resources |
| 217 | 2204590 | MIR SHABNUM AZAD | M.TECH EE    | 2ND | Renewable Energy Resources |
| 218 | 2204530 | AKRAM CHOUHAN    | B-TECH CIVIL | 2ND | Renewable Energy Resources |
| 219 | 2204531 | AMIT RANA        | B-TECH CIVIL | 2ND | Renewable Energy Resources |
| 220 | 2204532 | DANISH SULAMON   | B-TECH CIVIL | 2ND | Renewable Energy Resources |
| 221 | 2204533 | DINESH KUMAR     | B-TECH CIVIL | 2ND | Renewable Energy Resources |
| 222 | 1906392 | AKSHAY GOYAL     | B.arch       | 5TH | Revit Structure            |
| 223 | 1906393 | ASHWINI THAKREY  | B.arch       | 5TH | Revit Structure            |
| 224 | 1906394 | DIKSHA SHARMA    | B.arch       | 5TH | Revit Structure            |
| 225 | 1906396 | INDERPREET KAUR  | B.arch       | 5TH | Revit Structure            |
| 226 | 1906397 | JETHRO BANDA     | B.arch       | 5TH | Revit Structure            |
| 227 | 1935286 | SIMRANJOT SINGH  | B.arch       | 5TH | Revit Structure            |
| 228 | 2005281 | EMANJAP KAUR     | B.arch       | 4TH | Revit Structure            |
| 229 | 2005282 | RAMANPREET KAUR  | B.arch       | 4TH | Revit Structure            |
| 230 | 2105015 | AMIT SINGH       | B.arch       | 3RD | Revit Structure            |
| 231 | 2105017 | JASMEET SINGH    | B.arch       | 3RD | Revit Structure            |
| 232 | 2105018 | MOHIT AGGARWAL   | B.arch       | 3RD | Revit Structure            |
| 233 | 2204377 | ARUN BISHT       | B.arch       | 2ND | Revit Structure            |
| 234 | 2204378 | NITESH SHARMA    | B.arch       | 2ND | Revit Structure            |
| 235 | 2204379 | PRIYANSHU        | B.arch       | 2ND | Revit Structure            |

|     |         | SINGH               |        |     |                 |
|-----|---------|---------------------|--------|-----|-----------------|
| 236 | 2204380 | SHEFALI             | B.arch | 2ND | Revit Structure |
| 237 | 2303594 | AJAY KUMAR          | B.arch | 1st | Revit Structure |
| 238 | 2303595 | JAGMEET SINGH       | B.arch | 1st | Revit Structure |
| 239 | 2303597 | PARDEEP KUMAR       | B.arch | 1st | Revit Structure |
| 240 | 2339635 | Prabhleen Kaur Tuli | B.arch | 1st | Revit Structure |
| 241 | 2303598 | Priya Ranjan Kumar  | B.arch | 1st | Revit Structure |
| 242 | 2303600 | RIYA                | B.arch | 1st | Revit Structure |
| 243 | 2303601 | SAURABH KUMAR       | B.arch | 1st | Revit Structure |
| 244 | 2339636 | VIKRAM SINGH        | B.arch | 1st | Revit Structure |

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Academic Year 2023-24

Activity organized Report

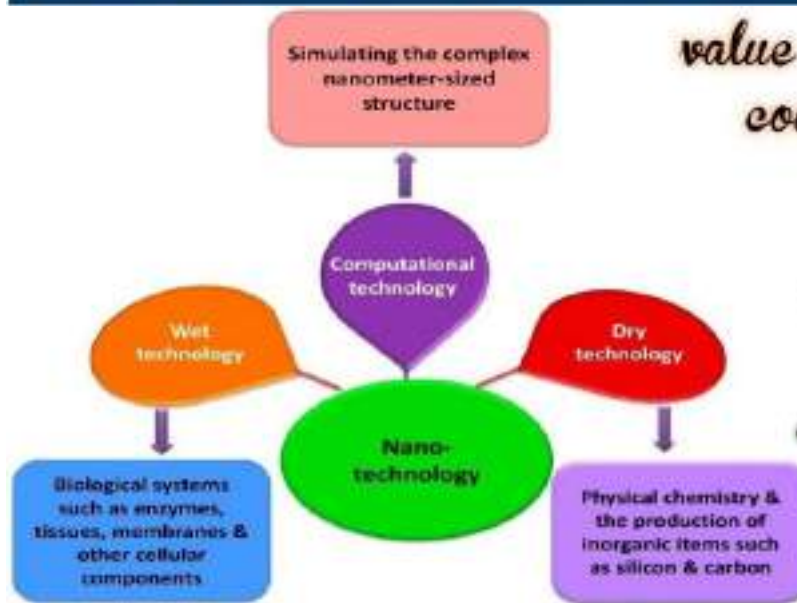
Date : 22.04.2024

|                               |                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                                   |
| Title of Activity             | Nanosensor and Devices                                                                                                                                                                                                                                                                                                               |
| Programme                     | B.Tech (CSE, ME,EE,CIVIL)                                                                                                                                                                                                                                                                                                            |
| Date of Commencement          | 15.1.2024                                                                                                                                                                                                                                                                                                                            |
| Date of Completion            | 22.04.2024                                                                                                                                                                                                                                                                                                                           |
| Place of activity             | C Block Seminar Hall                                                                                                                                                                                                                                                                                                                 |
| No of participants Enrolled   | 30                                                                                                                                                                                                                                                                                                                                   |
| No of participants completed  | 27                                                                                                                                                                                                                                                                                                                                   |
| Course Coordinator and Expert | Vishal                                                                                                                                                                                                                                                                                                                               |
| Summary of activity           | The value added course for the Even Semester During the Academic Year 2023-24 was Successfully Organized .The Course On “NANOSENSOR AND DEVICES” was covered .It Was aimed at various course students to get aware of nanosensor and their importance .A total of 30 students registered for the course and 27 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                                      |

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*value added  
course*



## Nanomaterials & Nanotechnology

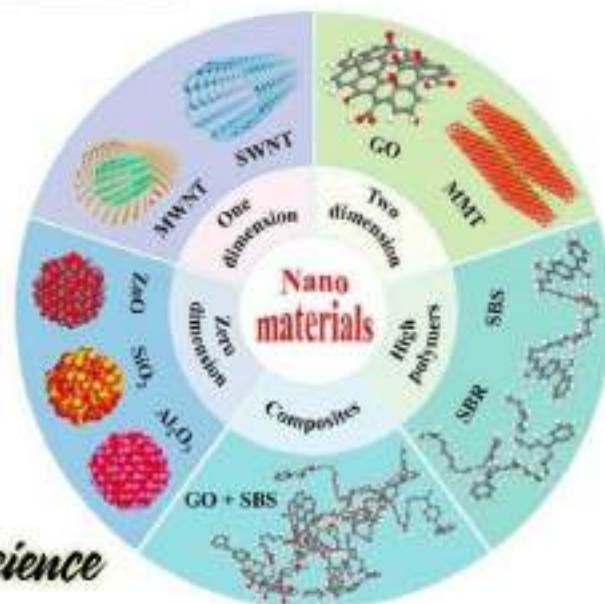
*Commencement*

*from: -*

**15/1/2024**

**Coordinator:-  
Vishal Arora**

*Department of Applied Science*



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# IET BHADDAL

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ROPAR

IET/DEPT-AS-1209

Date: 15/1/2024

PRINCIPAL  
IET BHADDAL  
ROPAR

Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2023-24-.The details of value added Course is as follow

| S.no | Name of Value Added Course | Class                        | Contact Hrs | Date of Commencement | Expert                         |
|------|----------------------------|------------------------------|-------------|----------------------|--------------------------------|
| 1    | Nanosensor and Devices     | B.tech<br>(CSE,ME,EE, Civil) | 30/45       | 15.1.2024            | Mr Vishal From Applied Science |
|      |                            |                              |             |                      |                                |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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PERSONAL, T = 3953  
Date: 2024.12.26 15:24:11 +05'30'

Thanks and Regards

Course co-ordinator

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : info@ietbhaddal.edu.in | Website: www.ietbhaddal.edu.in



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# IET BHADDAL

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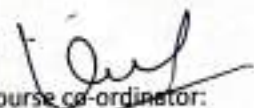
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DATE 15/1/2024

## NOTICE

It is for the information of all students of - That department is conducting value added course entitled - Nanosensor and Devices from -15/1/2024. The Course is scheduled for ---45 hrs duration.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

SHUBLAKSHAN  
SINGH BINDRA

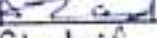
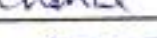
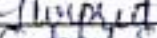
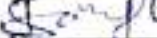
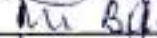
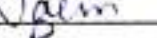
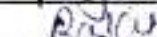
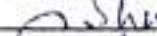
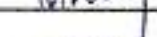
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Head of Department

Cc : principal ( For Kind information please)  
Head Of all Departments ( For Information)  
IQAC  
ALL the notice boards

Dept of ApSci

2023-24

| DURATION 3HR |                         | Name Of Course Nanosensor and Devices |      |      |       |        |       |       |       |       |       |      | Course Duration 45HRS |      |       |      |                                                                                       |  |
|--------------|-------------------------|---------------------------------------|------|------|-------|--------|-------|-------|-------|-------|-------|------|-----------------------|------|-------|------|---------------------------------------------------------------------------------------|--|
| S.no         | Name                    | 15/1                                  | 22/1 | 29/1 | 5-Feb | 12-Feb | 2/19/ | 2/26/ | 4-Mar | ##### | 18/3/ | 25/3 | 1/4/                  | 8/4/ | 15/4/ | 22/4 | SIGNATURE                                                                             |  |
| 1            | ABHISHEK SAHORE         | ab                                    | 1    | 2    | 3     | ab     | 4     | 5     | ab    | 6     | 7     | 8    | ab                    | 9    | 10    | ab   |    |  |
| 2            | AKIB MIAH               | 1                                     | 2    | 3    | ab    | ab     | 4     | ab    | 5     | ab    | 6     | 7    | ab                    | 8    | ab    | 9    |    |  |
| 3            | AMIT KUMAR SAH          | 1                                     | ab   | 2    | 3     | 4      | ab    | ab    | ab    | 5     | 6     | 7    | 8                     | 9    | ab    | 10   |    |  |
| 4            | ARMAN KHAN              | 1                                     | ab   | 2    | 3     | 4      | 5     | 6     | 7     | ab    | ab    | 8    | 9                     | ab   | 10    | ab   |    |  |
| 5            | ARSHDEEP KAUR           | 1                                     | ab   | 2    | 3     | 4      | AB    | AB    | 5     | 6     | 7     | 8    | AB                    | AB   | 9     | 10   |    |  |
| 6            | ARSHPREET SINGH         | 1                                     | 2    | ab   | 3     | 4      | 5     | 6     | AB    | AB    | AB    | 7    | 8                     | 9    | 10    | 11   |    |  |
| 7            | AZAD HUSSAIN            | 1                                     | 2    | ab   | 3     | 4      | AB    | AB    | AB    | 5     | 6     | 7    | AB                    | AB   | 8     | 9    |    |  |
| 8            | CHAHIL                  | 1                                     | 2    | 3    | ab    | 4      | 5     | 6     | 7     | AB    | 8     | 9    | 10                    | AB   | AB    | 11   |    |  |
| 9            | DIPUMONI BISWAS         | 1                                     | 2    | 3    | ab    | 4      | 5     | AB    | AB    | 6     | 7     | 8    | AB                    | AB   | 9     | 10   |    |  |
| 10           | GURPREET SINGH          | 1                                     | 2    | ab   | 3     | 4      | AB    | 5     | 6     | 7     | AB    | AB   | 8                     | 9    | 10    | AB   |    |  |
| 11           | GURPREET SINGH          | ab                                    | 1    | 2    | 3     | 4      | 5     | 6     | 7     | AB    | 8     | 9    | 10                    | AB   | AB    | 11   |    |  |
| 12           | GURPREET SINGH<br>BAINS | 1                                     | 2    | ab   | 3     | 4      | 5     | 6     | 7     | AB    | 8     | 9    | 10                    | AB   | AB    | 11   |    |  |
| 13           | JASKARANJOT SINGH       | ab                                    | 1    | 2    | 3     | 4      | 5     | 6     | 7     | AB    | 8     | 9    | 10                    | AB   | AB    | 11   |    |  |
| 14           | KALA SINGH              | 1                                     | 2    | 3    | ab    | 4      | 5     | 6     | 7     | AB    | 8     | 9    | 10                    | AB   | AB    | 11   |    |  |
| 15           | KARANDEEP SINGH         | 1                                     | 2    | 3    | ab    | 4      | 5     | 6     | 7     | AB    | 8     | 9    | 10                    | AB   | AB    | 11   |    |  |
| 16           | KARANDEEP SINGH         | ab                                    | 1    | 2    | 3     | ab     | ab    | 4     | 5     | 6     | AB    | AB   | AB                    | 7    | 8     | 9    |    |  |
| 17           | MAYANK                  | ab                                    | 1    | ab   | 2     | 3      | 4     | ab    | 5     | ab    | 6     | 7    | ab                    | 8    | ab    | 9    |   |  |
| 18           | MOSTAKIM BILLAH         | 1                                     | ab   | 2    | 3     | ab     | 4     | 5     | 6     | ab    | 7     | AB   | 8                     | 9    | ab    | 10   |  |  |
| 19           | NAEM HOSSEN             | 1                                     | ab   | ab   | 2     | 3      | 4     | ab    | 5     | ab    | 6     | 7    | ab                    | 8    | ab    | 9    |  |  |
| 20           | PARVEEN SINGH           | Not Registered                        |      |      |       |        |       |       |       |       |       |      |                       |      |       |      |  |  |
| 21           | RAJAN YADAV             | 1                                     | ab   | ab   | 2     | 3      | 4     | 5     | AB    | ab    | 6     | AB   | 7                     | 8    | ab    | 9    |  |  |
| 22           | RAKIB AHMED             | 1                                     | ab   | 2    | 3     | 4      |       |       |       |       |       |      |                       |      |       |      |  |  |
| 23           | SHIVANG                 | ab                                    | 1    | ab   | 2     | 3      | 4     | 5     | AB    | ab    | 6     | AB   | 7                     | 8    | ab    | 9    |  |  |
| 24           | SOHAG ALI               | 1                                     | 2    | 3    | ab    | 4      | 5     | 6     | ab    | 7     | AB    | 8    | 9                     | ab   | 10    | 11   |  |  |
| 25           | TANMAY RANA             | 1                                     | 2    | ab   | 3     | 4      | 5     | 6     | ab    | 7     | AB    | 8    | 9                     | ab   | 10    | 11   |  |  |
| 26           | TUSHAR SEKHRI           | Not Registered                        |      |      |       |        |       |       |       |       |       |      |                       |      |       |      |                                                                                       |  |
| 27           | ABHAY TIWARI            | 1                                     | ab   | 2    | 3     | ab     | 4     | 5     | AB    | ab    | 6     | AB   | 7                     | 8    | ab    | 9    |  |  |

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## **Nonmaterial and Nanotechnology**

### **SYLLABUS**

#### **Nanosensors and Devices**

##### **Unit I**

Nanosensors: Introduction to sensors. Characteristics and terminology - static and dynamic characteristics. Micro and nano-sensors, Fundamentals of sensors, biosensor, micro fluids, Packaging and characterization of sensors, Sensors for aerospace and defense. Organic and inorganic nanosensors.

##### **Unit II**

Nanotechnology enabled devices: Nanomaterials and nanostructured films, Nanoscale electronic and ionic transport. Sensor for bio-medical applications. Bioelectronics, Nanoparticle/biomaterial hybrid systems for sensing applications. Gas sensor.

##### **Unit III**

Biosensors: Principles, DNA and nucleotide-based biosensors, Protein-based biosensors, Materials for biosensor applications, Fabrication of biosensor devices, Detection in Biosensors – fluorescence, absorption, electrochemical methods, Techniques used for microfabrication, Future direction in biosensor research.

References 1. Chemical Sensors and Biosensors; Brian, R Eggins; Wiley; New York, Chichester, 2002. 2. Biosensors: A Practical Approach, J. Cooper & C. Tass, Oxford University Press, 2004. 3. Nanomaterials for Biosensors, Cs. Kumar, Wiley – VCH, 2007. 4. Smart Biosensor Technology, G.K. Knoff, A.S. Bassi, CRC Press, 2006.

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2023-24**

|    |         |                      |            |     |                        |
|----|---------|----------------------|------------|-----|------------------------|
| 1  | 2303604 | ABHISHEK SAHORE      | B-TECH CSE | 1ST | Nanosensor and Devices |
| 2  | 2303605 | AKIB MIAH            | B-TECH CSE | 1ST | Nanosensor and Devices |
| 3  | 2339638 | AMIT KUMAR SAH       | B-TECH CSE | 1ST | Nanosensor and Devices |
| 4  | 2303610 | ARMAN KHAN           | B-TECH CSE | 1ST | Nanosensor and Devices |
| 5  | 2303611 | ARSHDEEP KAUR        | B-TECH CSE | 1ST | Nanosensor and Devices |
| 6  | 2303612 | ARSHPREET SINGH      | B-TECH CSE | 1ST | Nanosensor and Devices |
| 7  | 2339639 | AZAD HUSSAIN         | B-TECH CSE | 1ST | Nanosensor and Devices |
| 8  | 2303616 | CHAHIL               | B-TECH CSE | 1ST | Nanosensor and Devices |
| 9  | 2303617 | DIPUMONI BISWAS      | B-TECH CSE | 1ST | Nanosensor and Devices |
| 10 | 2303619 | GURPREET SINGH       | B-TECH CSE | 1ST | Nanosensor and Devices |
| 11 | 2303618 | GURPREET SINGH       | B-TECH CSE | 1ST | Nanosensor and Devices |
| 12 | 2303620 | GURPREET SINGH BAINS | B-TECH CSE | 1ST | Nanosensor and Devices |
| 13 | 2303621 | JASKARANJOT SINGH    | B-TECH CSE | 1ST | Nanosensor and Devices |
| 14 | 2303623 | KALA SINGH           | B-TECH CSE | 1ST | Nanosensor and Devices |
| 15 | 2303625 | KARANDEEP SINGH      | B-TECH CSE | 1ST | Nanosensor and Devices |
| 16 | 2303624 | KARANDEEP SINGH      | B-TECH CSE | 1ST | Nanosensor and Devices |
| 17 | 2339640 | MAYANK               | B-TECH CSE | 1ST | Nanosensor and Devices |
| 18 | 2303633 | MOSTAKIM BILLAH      | B-TECH CSE | 1ST | Nanosensor and Devices |
| 19 | 2303634 | NAEM HOSSEN          | B-TECH CSE | 1ST | Nanosensor and Devices |
| 20 | 2303639 | PARVEEN SINGH        | B-TECH CSE | 1ST | Nanosensor and         |

|    |         |               |            |     |                        |
|----|---------|---------------|------------|-----|------------------------|
|    |         |               |            |     | Devices                |
| 21 | 2303641 | RAJAN YADAV   | B-TECH CSE | 1ST | Nanosensor and Devices |
| 22 | 2303642 | RAKIB AHMED   | B-TECH CSE | 1ST | Nanosensor and Devices |
| 23 | 2303648 | SHIVANG       | B-TECH CSE | 1ST | Nanosensor and Devices |
| 24 | 2303649 | SOHAG ALI     | B-TECH CSE | 1ST | Nanosensor and Devices |
| 25 | 2303650 | TANMAY RANA   | B-TECH CSE | 1ST | Nanosensor and Devices |
| 26 | 2303651 | TUSHAR SEKHRI | B-TECH CSE | 1ST | Nanosensor and Devices |
| 27 | 2303654 | ABHAY TIWARI  | B.TECH EE  | 1ST | Nanosensor and Devices |

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Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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BINDRA

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**Principal**

**Date of issue**

**Academic Year 2023-24**

**Activity organized Report**

**Date : 30 .10.2023**

|                                      |                                                                                                                                                                                                                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name of activity</b>              | Value Added Course                                                                                                                                                                                                                                                                                      |
| <b>Title of Activity</b>             | PLC( SOFTWARE AND HARDWARE)                                                                                                                                                                                                                                                                             |
| <b>Programme</b>                     | M.Tech (CSE) B.Tech CSE, MCA                                                                                                                                                                                                                                                                            |
| <b>Date of Commencement</b>          | 24.7.2023                                                                                                                                                                                                                                                                                               |
| <b>Date of Completion</b>            | 30.10.2023                                                                                                                                                                                                                                                                                              |
| <b>Place of activity</b>             | B221                                                                                                                                                                                                                                                                                                    |
| <b>No of participants Enrolled</b>   | 17                                                                                                                                                                                                                                                                                                      |
| <b>No of participants completed</b>  | 16                                                                                                                                                                                                                                                                                                      |
| <b>Course Coordinator and Expert</b> | Shaliza                                                                                                                                                                                                                                                                                                 |
| <b>Summary of activity</b>           | The value added course for the ODD Semester During the Academic Year 2023-24 was Successfully Organized .The Course On “PCB SOFTWARE AND HARDWARE” was covered .It Was aimed at various course students to understand it .A total of 17 students registered for the course and 16 completed the Course. |
|                                      |                                                                                                                                                                                                                                                                                                         |

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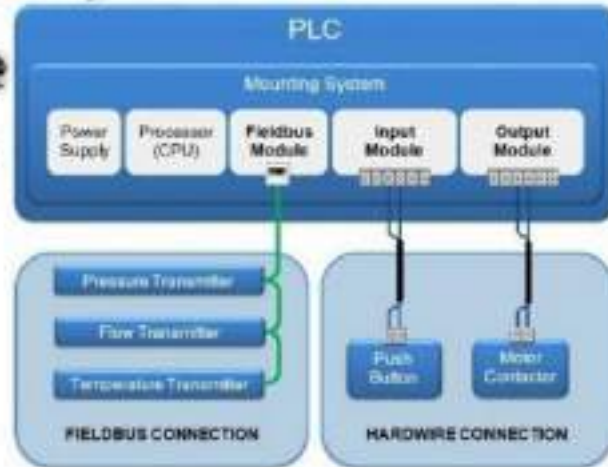
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## PLC (software & hardware)

value added course

Commencement

From:-  
24/7/2023



Coordinator:-  
*Ms. Shailja*

*Department of computer  
science & Engineering*

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IET/DEPT-CSE / 182

Date 24/7/2023

PRINCIPAL  
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**Permission For Conducting value added course and allocate faculty member for same**

It is to bring to your kind notice that following value added course is finalized For academic Year 2023-24. The details of value added Course is as follow

| S.no | Name of Value Added Course  | Class                                 | Contact Hrs | Date of Commencement | Expert     |
|------|-----------------------------|---------------------------------------|-------------|----------------------|------------|
| 1    | PLC( SOFTWARE AND HARDWARE) | M.tech<br>(CSE), B.Tech<br>(CSE), MCA | 30/45       | 24.7.2023            | Ms Shalija |
|      |                             |                                       |             |                      |            |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

*Shalija*  
Course coordinator





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CAMPUS  
ROPAR

IET NACS 6/219

DATE 24/7/2023

## NOTICE

It is for the information of all students of - That **CSE** department is conducting value added course entitled - PLC( SOFTWARE AND HARDWARE) from -24/7/2023. The Course is scheduled for --- 45 hrs duration.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

*Shubla*

Course coordinator:

Head of Department

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Cc : principal ( For Kind information please)

Head Of all Departments ( For Information)

IQAC

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Dept of CSE 2023-24

| DURATION 3HR                               |                   | ATTENDANCE SHEET FOR VALUE ADDED COURSE |       |      |      |      |      |      |        |      |      |       |       |       |       |       |                      |  |                    |
|--------------------------------------------|-------------------|-----------------------------------------|-------|------|------|------|------|------|--------|------|------|-------|-------|-------|-------|-------|----------------------|--|--------------------|
| S.no                                       | Name              | 24.7.2023                               | 31.7. | 7.8. | 14/8 | 21/8 | 28/8 | 4/9/ | 11-Sep | 18/9 | 25/9 | 2/10/ | 9/10/ | 16/10 | 23/10 | 30/10 | Course Duration 45hr |  |                    |
| Name Of Course PLC( SOFTWARE AND HARDWARE) |                   |                                         |       |      |      |      |      |      |        |      |      |       |       |       |       |       |                      |  | Total attendance % |
| 1                                          | BDUL MAJEED AKHOO | 1                                       | 2     | 3    | ab   | ab   | 4    | ab   | 5      | 6    | 7    | ab    | ab    | 8     | 9     | 10    | ab                   |  | 100                |
| 2                                          | AKASHDEEP SINGH   | 1                                       | ab    | ab   | 2    | 3    | 4    | 5    | 6      | 7    | ab   | ab    | 8     | 9     | 10    | ab    |                      |  | 100                |
| 3                                          | DEEPAK BAWA       | 1                                       | ab    | ab   | 2    | 3    | 4    | 5    | 6      | ab   | 7    | ab    | 8     | 9     | 10    | ab    |                      |  | 100                |
| 4                                          | DEEPIKA           | 1                                       | ab    | ab   | 2    | 3    | 4    | 5    | 6      | ab   | 7    | ab    | 8     | 9     | 10    | ab    |                      |  | 100                |
| 5                                          | AJAY PRATAP SINGH | 1                                       | 2     | 3    | ab   | ab   | 4    | ab   | 5      | 6    | 7    | ab    | ab    | 8     | 9     | 10    | ab                   |  | 100                |
| 6                                          | BAIVHAB KOUNDAL   | 1                                       | 2     | 3    | ab   | ab   | 4    | ab   | 5      | 6    | 7    | ab    | ab    | 8     | 9     | 10    |                      |  | 100                |
| 7                                          | GURVINDER SINGH   | 1                                       | 2     | 3    | ab   | ab   | 4    | ab   | 5      | 6    | 7    | ab    | ab    | 8     | 9     | 10    |                      |  | 100                |
| 8                                          | MANU MINHAS       | ab                                      | 1     | 2    | 3    | ab   | 4    | ab   | 5      | 6    | 7    | ab    | ab    | 8     | 9     | 10    |                      |  | 100                |
| 9                                          | MASUD BEEN RASHID | ab                                      | 1     | 2    | 3    | ab   | 4    | ab   | 5      | 6    | 7    | ab    | 8     | ab    | 9     | 10    |                      |  | 100                |
| 10                                         | NITISH BHARDWAJ   | ab                                      | 1     | 2    | 3    | ab   | 4    | ab   | 5      | 6    | 7    | ab    | 8     | ab    | 9     | 10    |                      |  | 100                |
| 11                                         | PRABHJOT KAUR     | ab                                      | 1     | 2    | 3    | ab   | 4    | ab   | 5      | 6    | 7    | ab    | 8     | ab    | 9     | 10    |                      |  | 100                |
| 12                                         | SAKSHAM SHARMA    | ab                                      | 1     | 2    | 3    | ab   | 4    | ab   | 5      | 6    | 7    | ab    | 8     | ab    | 9     | 10    |                      |  | 100                |
| 13                                         | SARTHAK SHARMA    | 1                                       | ab    | 2    | ab   | 3    | 4    | ab   | ab     | 5    | 6    | 7     | ab    | 8     | ab    | 9     | 10                   |  | 100                |
| 14                                         | SATYAM            | 1                                       | ab    | 2    | ab   | 3    | 4    | ab   | ab     | 5    | 6    | 7     | ab    | 8     | 9     | 10    |                      |  | 100                |
| 15                                         | SIMRANJIT KAUR    | 1                                       | ab    | 2    | ab   | 3    | 4    | ab   | ab     | 5    | 6    | 7     | ab    | 8     | 9     | 10    |                      |  | 100                |
| 16                                         | TANVEER SINGH     | 1                                       | ab    | 2    | ab   | 3    | 4    | ab   | ab     | 5    | 6    | 7     | ab    | 8     | 9     | 10    |                      |  | 100                |
| 17                                         | TARUN KUMAR       | 1                                       | ab    | 2    | ab   | 3    | 4    | ab   | ab     | 5    | 6    | 7     | ab    | 8     | 9     | 10    |                      |  | 100                |

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# **PLC HARDWARE AND SOFTWARE**

## **1. Introduction to PLC (12 hrs)**

What is PLC, concept of PLC, Building blocks of PLC, Functions of various blocks, limitations of relays. Advantages of PLCs over electromagnetic relays. Different programming languages, PLC manufacturer etc.

## **2. Working of PLC (16 hrs)**

- Basic operation and principles of PLC
- Scan Cycle
- Memory structures, I/O structure
- Programming terminal, power supply

## **3. Instruction Set (16 hrs)**

- Basic instructions like latch, master control self holding relays.
- Timer instruction like retentive timers, resetting of timers.
- Counter instructions like up counter, down counter, resetting of counters.
- Arithmetic Instructions (ADD,SUB,DIV,MUL etc.)
- MOV instruction
- RTC(Real Time Clock Function)
- Watch Dog Timer
- Comparison instructions like equal, not equal, greater, greater than equal, less than, less than equal

## **4. Ladder Diagram Programming (10 hrs)**

Programming based on basic instructions, timer, counter, and comparison instructions using ladder program.

## **5. Applications of PLCs (10 hrs)**

- Object counter
- On-off control
- Car parking
- Sequential starting of motors
- Traffic light control
- Motor in forward and reverse direction
- Star-Delta, DOL Starters
- Filling of Bottles
- Room Automation

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2023-24**

| S.NO | ROLL NO | NAME                | BRANCH     | YEAR | VALUE ADDED COURSE          |
|------|---------|---------------------|------------|------|-----------------------------|
| 1    | 2204573 | ABDUL MAJEED AKHOON | M.TECH CSE | 2ND  | PLC( SOFTWARE AND HARDWARE) |
| 2    | 2204575 | AKASHDEEP SINGH     | M.TECH CSE | 2ND  | PLC( SOFTWARE AND HARDWARE) |
| 3    | 2204576 | DEEPAK BAWA         | M.TECH CSE | 2ND  | PLC( SOFTWARE AND HARDWARE) |
| 4    | 2204577 | DEEPIKA             | M.TECH CSE | 2ND  | PLC( SOFTWARE AND HARDWARE) |
| 5    | 2204578 | MINAKSHI CHANDEL    | M.TECH CSE | 2ND  | PLC( SOFTWARE AND HARDWARE) |
| 6    | 2204579 | RASIK GUPTA         | M.TECH CSE | 2ND  | PLC( SOFTWARE AND HARDWARE) |
| 7    | 2204580 | SANDHYA VERMA       | M.TECH CSE | 2ND  | PLC( SOFTWARE AND HARDWARE) |
| 8    | 2204581 | VISHAL RANA         | M.TECH CSE | 2ND  | PLC( SOFTWARE AND HARDWARE) |
| 9    | 2204422 | MASUD BEEN RASHID   | B.Tech CSE | 2ND  | PLC( SOFTWARE AND HARDWARE) |
| 10   | 2204426 | NITISH BHARDWAJ     | B.Tech CSE | 2ND  | PLC( SOFTWARE AND HARDWARE) |
| 11   | 2204429 | PRABHJOT KAUR       | B.Tech CSE | 2ND  | PLC( SOFTWARE AND HARDWARE) |
| 12   | 2204434 | SAKSHAM SHARMA      | B.Tech CSE | 2ND  | PLC( SOFTWARE AND HARDWARE) |
| 13   | 2204435 | SARTHAK             | B.Tech CSE | 2ND  | PLC( SOFTWARE               |

|    |         |                   |            |     |                                   |
|----|---------|-------------------|------------|-----|-----------------------------------|
|    |         | SHARMA            |            |     | AND<br>HARDWARE)                  |
| 14 | 2204436 | SATYAM            | B.Tech CSE | 2ND | PLC( SOFTWARE<br>AND<br>HARDWARE) |
| 15 | 2204437 | SIMRANJIT<br>KAUR | B.Tech CSE | 2ND | PLC( SOFTWARE<br>AND<br>HARDWARE) |
| 16 | 2204441 | TANVEER SINGH     | B.Tech CSE | 2ND | PLC( SOFTWARE<br>AND<br>HARDWARE) |
| 17 | 2204443 | TARUN KUMAR       | B.Tech CSE | 2ND | PLC( SOFTWARE<br>AND<br>HARDWARE) |

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# IETBHADDAL

TECHNICAL  
CAMPUS  
OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**



## Academic Year 2023-24

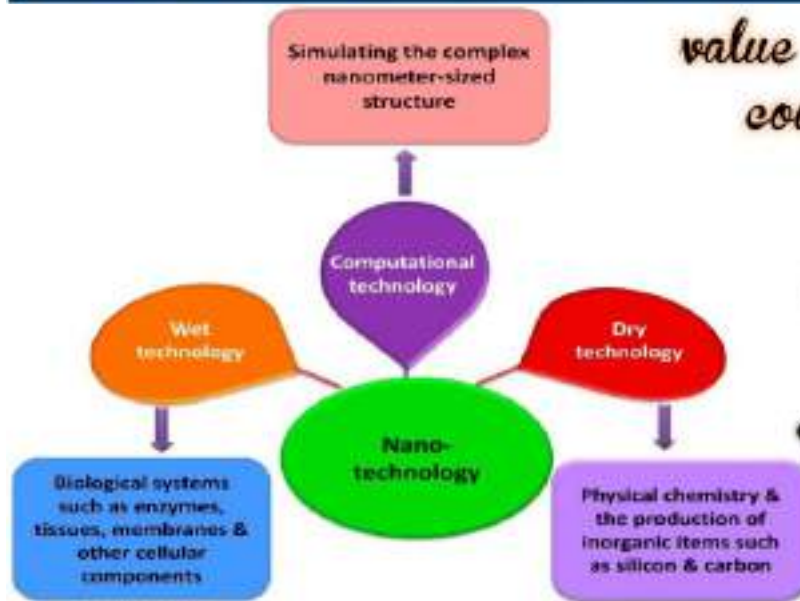
### Activity organized Report

Date : 15.11.2023

|                               |                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                         |
| Title of Activity             | Nanomaterials and Nanotechnology                                                                                                                                                                                                                                                                                           |
| Programme                     | B.Tech (CSE, ME,EE,CIVIL)                                                                                                                                                                                                                                                                                                  |
| Date of Commencement          | 09.8.2023                                                                                                                                                                                                                                                                                                                  |
| Date of Completion            | 15.11.2023                                                                                                                                                                                                                                                                                                                 |
| Place of activity             | C Block Seminar Hall                                                                                                                                                                                                                                                                                                       |
| No of participants Enrolled   | 30                                                                                                                                                                                                                                                                                                                         |
| No of participants completed  | 27                                                                                                                                                                                                                                                                                                                         |
| Course Coordinator and Expert | Vishal                                                                                                                                                                                                                                                                                                                     |
| Summary of activity           | The value added course for the ODD Semester During the Academic Year 2023-24 was Successfully Organized .The Course On “NANOMATERIALS AND NANOTECHNOLOGY” was covered .It Was aimed at various course students to understand nanotechnology .A total of 30 students registered for the course and 27 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                            |

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*value added  
course*



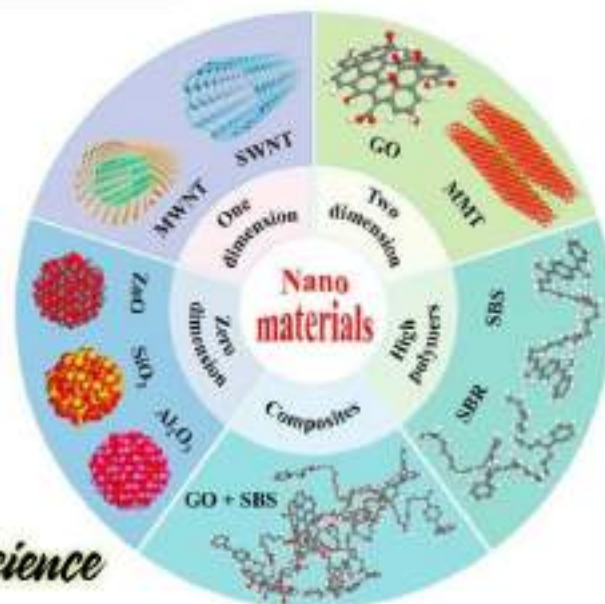
## Nanomaterials & Nanotechnology

*Commencement*

*from: -  
9/8/2023*

*Coordinator:-  
Vishal Arora*

*Department of Applied Science*



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IET/DEPT- AS/145

Date: 9.8.2023

PRINCIPAL  
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ROPAR

**Permission For Conducting value added course and allocate faculty member for same**

It is to bring to your kind notice that following value added course is finalized For academic Year 2023-24. The details of value added Course is as follow

| S.no | Name of Value Added Course       | Class                     | Contact Hrs | Date of Commencement | Expert                         |
|------|----------------------------------|---------------------------|-------------|----------------------|--------------------------------|
| 1    | Nanomaterials and Nanotechnology | B.tech (CSE,ME,EE, Civil) | 30/45       | 9.8.2023             | Mr Vishal From Applied Science |
|      |                                  |                           |             |                      |                                |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

*[Signature]*  
Course co-ordinator





# IET BHADDAL

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UGC approved (2f & 12B) | Affiliated to IKG-PTU (Jalandhar)

TECHNICAL  
CAMPUS  
ROPAR

IET/NAC/AS/017

DATE 9/8/2023

## NOTICE

It is for the information of all students of - That **AS** department is conducting value added course entitled - Nanomaterials and Nanotechnology from -9/8/2023. The Course is scheduled for — 45 hrs duration.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

Course coordinator

Head of Department

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Cc: principal ( For Kind information please)  
Head Of all Departments ( For Information)  
IQAC  
ALL the notice boards

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)



| DURATION 3HR |                      | ATTENDANCE SHEET FOR VALUE ADDED COURSES       |       |      |      |       |      |      |      |       |        |       |       |                      |       |        |              |  |  |  |  |  |
|--------------|----------------------|------------------------------------------------|-------|------|------|-------|------|------|------|-------|--------|-------|-------|----------------------|-------|--------|--------------|--|--|--|--|--|
|              |                      | Name Of Course Nanomaterial and Nanotechnology |       |      |      |       |      |      |      |       |        |       |       | Course Duration 45HR |       |        |              |  |  |  |  |  |
| S.no         | Name                 | 9/8/                                           | 16/8/ | 23/8 | 30/8 | 6-Sep | 13/9 | 20/9 | 27/9 | 4-Oct | 11-Oct | 18-10 | 25/10 | 1-Nov                | 8-Nov | 15-Nov | SIGNATURE    |  |  |  |  |  |
| 1            | ANCHAL               | ab                                             | 1     | 2    | 3    | ab    | 4    | 5    | ab   | 6     | 7      | 8     | ab    | 9                    | 10    | ab     | Anchal       |  |  |  |  |  |
| 2            | ABHINANDAN           | 1                                              | 2     | 3    | ab   | ab    | 4    | ab   | 5    | ab    | 6      | 7     | ab    | 8                    | ab    | 9      | Abhinandan   |  |  |  |  |  |
| 3            | AMANDEEP KAUR        | 1                                              | ab    | 2    | 3    | 4     | ab   | ab   | ab   | 5     | 6      | 7     | 8     | 9                    | ab    | 10     | Amandeep     |  |  |  |  |  |
| 4            | AMANJOT KAUR         | 1                                              | ab    | 2    | 3    | 4     | 5    | 6    | 7    | ab    | ab     | 8     | 9     | ab                   | 10    | ab     | Amanjot      |  |  |  |  |  |
| 5            | ANURAG RATURI        | 1                                              | ab    | 2    | 3    | 4     | AB   | AB   | 5    | 6     | 7      | 8     | AB    | AB                   | 9     | 10     | Anurag       |  |  |  |  |  |
| 6            | ASHISH BADU          | 1                                              | 2     | ab   | 3    | 4     | 5    | 6    | AB   | AB    | AB     | 7     | 8     | 9                    | 10    | 11     | Ashish Badu  |  |  |  |  |  |
| 7            | BASANTI CHAND        | 1                                              | 2     | ab   | 3    | 4     | AB   | AB   | AB   | 5     | 6      | 7     | AB    | AB                   | 8     | 9      | Basanti      |  |  |  |  |  |
| 8            | BIKRAMJEET SINGH     | 1                                              | 2     | 3    | ab   | 4     | 5    | 6    | 7    | AB    | 8      | 9     | 10    | AB                   | AB    | 11     | Bikramjeet   |  |  |  |  |  |
| 9            | JIGYASA PANWAR       | 1                                              | 2     | 3    | ab   | 4     | 5    | AB   | AB   | 6     | 7      | 8     | AB    | AB                   | 9     | 10     | Jigyasa      |  |  |  |  |  |
| 10           | KESHAV RAJ JOSHI     | 1                                              | 2     | ab   | 3    | 4     | AB   | 5    | 6    | 7     | AB     | AB    | 8     | 9                    | 10    | AB     | Keshav       |  |  |  |  |  |
| 11           | LAKSHIT SHARMA       | ab                                             | 1     | 2    | 3    | 4     | 5    | 6    | 7    | AB    | 8      | 9     | 10    | AB                   | AB    | 11     | Lakshit      |  |  |  |  |  |
| 12           | MANJIT KAUR          | 1                                              | 2     | ab   | 3    | 4     | 5    | 6    | 7    | AB    | 8      | 9     | 10    | AB                   | AB    | 11     | Manjit Kaur  |  |  |  |  |  |
| 13           | MANPREET KAUR        | ab                                             | 1     | 2    | 3    | 4     | 5    | 6    | 7    | AB    | 8      | 9     | 10    | AB                   | AB    | 11     | Manpreet     |  |  |  |  |  |
| 14           | MD. NASIR UDDIN      | 1                                              | 2     | 3    | ab   | 4     | 5    | 6    | 7    | AB    | 8      | 9     | 10    | AB                   | AB    | 11     | Nasir Uddin  |  |  |  |  |  |
| 15           | NAVNEET KAUR         | 1                                              | 2     | 3    | ab   | 4     | 5    | 6    | 7    | AB    | 8      | 9     | 10    | AB                   | AB    | 11     | Navneet Kaur |  |  |  |  |  |
| 16           | NISHANT BHARPAGA     | ab                                             | 1     | 2    | 3    | ab    | ab   | 4    | 5    | 6     | AB     | AB    | AB    | 7                    | 8     | 9      | Nishant      |  |  |  |  |  |
| 17           | NISHITA              | ab                                             | 1     | ab   | 2    | 3     | 4    | ab   | 5    | ab    | 6      | 7     | ab    | 8                    | ab    | 9      | Nishita      |  |  |  |  |  |
| 18           | OWAIS RIYAZ          | 1                                              | ab    | 2    | 3    | ab    | 4    | 5    | 6    | ab    | 7      | AB    | 8     | 9                    | ab    | 10     | Owais        |  |  |  |  |  |
| 19           | RAMANJIT KAUR        | 1                                              | ab    | ab   | 2    | 3     | 4    | ab   | 5    | ab    | 6      | 7     | ab    | 8                    | ab    | 9      | Ramanjit     |  |  |  |  |  |
| 20           | SAHAS CHANDAN        | Not Registered                                 |       |      |      |       |      |      |      |       |        |       |       |                      |       |        |              |  |  |  |  |  |
| 21           | SAURAV DEVGAN        | 1                                              | ab    | ab   | 2    | 3     | 4    | 5    | AB   | ab    | 6      | AB    | 7     | 8                    | ab    | 9      | Saurav       |  |  |  |  |  |
| 22           | SHAH RAUFF UR RAHMAN | 1                                              | ab    | 2    | 3    | 4     |      |      |      |       |        |       |       |                      |       |        | Shah Rauff   |  |  |  |  |  |
| 23           | VIVEK KUMAR          | ab                                             | 1     | ab   | 2    | 3     | 4    | 5    | AB   | ab    | 6      | AB    | 7     | 8                    | ab    | 9      | Vivek        |  |  |  |  |  |
| 24           | ZOYA PARWEEN         | 1                                              | 2     | 3    | ab   | 4     | 5    | 6    | ab   | 7     | AB     | 8     | 9     | ab                   | 10    | 11     | Zoya         |  |  |  |  |  |
| 25           | HAPPY KUMAR          | 1                                              | 2     | ab   | 3    | 4     | 5    | 6    | ab   | 7     | AB     | 8     | 9     | ab                   | 10    | 11     | Happy        |  |  |  |  |  |
| 26           | PARDEEP KUMAR        | Not Registered                                 |       |      |      |       |      |      |      |       |        |       |       |                      |       |        |              |  |  |  |  |  |
| 27           | SHISHIR BADHEN       | 1                                              | ab    | 2    | 3    | ab    | 4    | 5    | AB   | ab    | 6      | AB    | 7     | 8                    | ab    | 9      | Shishir      |  |  |  |  |  |
| 28           | OM attri             | 1                                              | 2     | ab   | 3    | 4     | 5    | 6    | ab   | 7     | AB     | 8     | 9     | ab                   | 10    | 11     | Om           |  |  |  |  |  |

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|----|-------------------|----------------|----|---|---|----|---|---|----|----|---|----|---|---|----|---|--|--|-------------|
| 29 | Mohd Atif         | Not Registered |    |   |   |    |   |   |    |    |   |    |   |   |    |   |  |  | Mohd Atif   |
| 30 | Akash Kumar Tiwar | 1              | ab | 2 | 3 | ab | 4 | 5 | AB | ab | 6 | AB | 7 | 8 | ab | 9 |  |  | Akash Kumar |

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# Nonmaterial and Nanotechnology

## Unit I

Background to Nanoscience: Definition of Nano, Scientific revolution-Atomic Structure and atomic size, emergence and challenges of nanoscience and nanotechnology, carbon age-new form of carbon (CNT to Graphene), influence of nano over micro/macro, size effects and crystals, large surface to volume ratio, surface effects on the properties.

## Unit II

Types of nanostructure and properties of nanomaterials: One dimensional, Two dimensional and Three dimensional nanostructured materials, Quantum Dots shell structures, metal oxides, semiconductors, composites, mechanical-physical-chemical properties.

## Unit III

Application of Nanomaterial: Ferroelectric materials, coating, molecular electronics and nanoelectronics, biological and environmental, membrane based application, polymer based application.

## References:

1. Chemistry of nanomaterials: Synthesis, properties and applications by CNR Rao et.al. 2. Nanoparticles: From theory to applications – G. Schmidt, Wiley Weinheim 2004. 3. Instrument E L Principe, P Gnauck and P Hoffrogge, Microscopy and Microanalysis (2005), 11: 830- 831, Cambridge University Press. 4. Processing & properties of structural nanomaterials - Leon L. Shaw, Nanochemistry: A Chemical Approach to Nanomaterials, Royal Society of Chemistry, Cambridge UK 2005.

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2023-24**

| S.NO | ROLL NO | NAME             | BRANCH     | YEAR | VALUE ADDED COURSE               |
|------|---------|------------------|------------|------|----------------------------------|
| 1    | 2303603 | ANCHAL           | B-TECH CSE | 1ST  | Nanomaterials and Nanotechnology |
| 2    | 2339637 | ABHINANDAN       | B-TECH CSE | 1ST  | Nanomaterials and Nanotechnology |
| 3    | 2303606 | AMANDEEP KAUR    | B-TECH CSE | 1ST  | Nanomaterials and Nanotechnology |
| 4    | 2303607 | AMANJOT KAUR     | B-TECH CSE | 1ST  | Nanomaterials and Nanotechnology |
| 5    | 2303609 | ANURAG RATURI    | B-TECH CSE | 1ST  | Nanomaterials and Nanotechnology |
| 6    | 2303613 | ASHISH BADU      | B-TECH CSE | 1ST  | Nanomaterials and Nanotechnology |
| 7    | 2303614 | BASANTI CHAND    | B-TECH CSE | 1ST  | Nanomaterials and Nanotechnology |
| 8    | 2303615 | BIKRAMJEET SINGH | B-TECH CSE | 1ST  | Nanomaterials and Nanotechnology |
| 9    | 2303622 | JIGYASA PANWAR   | B-TECH CSE | 1ST  | Nanomaterials and Nanotechnology |
| 10   | 2303626 | KESHAV RAJ JOSHI | B-TECH CSE | 1ST  | Nanomaterials and Nanotechnology |
| 11   | 2303627 | LAKSHIT SHARMA   | B-TECH CSE | 1ST  | Nanomaterials and Nanotechnology |
| 12   | 2303628 | MANJIT KAUR      | B-TECH CSE | 1ST  | Nanomaterials and Nanotechnology |
| 13   | 2303629 | MANPREET         | B-TECH CSE | 1ST  | Nanomaterials                    |



# IET BHADDAL

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## TECHNICAL CAMPUS ROPAR

|    |         |                      |              |     |                                  |
|----|---------|----------------------|--------------|-----|----------------------------------|
|    |         | KAUR                 |              |     | and Nanotechnology               |
| 14 | 2303630 | MD. NASIR UDDIN      | B-TECH CSE   | 1ST | Nanomaterials and Nanotechnology |
| 15 | 2303635 | NAVNEET KAUR         | B-TECH CSE   | 1ST | Nanomaterials and Nanotechnology |
| 16 | 2303636 | NISHANT BHARPAGA     | B-TECH CSE   | 1ST | Nanomaterials and Nanotechnology |
| 17 | 2303637 | NISHTHA              | B-TECH CSE   | 1ST | Nanomaterials and Nanotechnology |
| 18 | 2303638 | OWAIS RIYAZ          | B-TECH CSE   | 1ST | Nanomaterials and Nanotechnology |
| 19 | 2303643 | RAMANJIT KAUR        | B-TECH CSE   | 1ST | Nanomaterials and Nanotechnology |
| 20 | 2303644 | SAHAS CHANDAN        | B-TECH CSE   | 1ST | Nanomaterials and Nanotechnology |
| 21 | 2303645 | SAURAV DEVGAN        | B-TECH CSE   | 1ST | Nanomaterials and Nanotechnology |
| 22 | 2303646 | SHAH RAUFF UR RAHMAN | B-TECH CSE   | 1ST | Nanomaterials and Nanotechnology |
| 23 | 2303652 | VIVEK KUMAR          | B-TECH CSE   | 1ST | Nanomaterials and Nanotechnology |
| 24 | 2303653 | ZOYA PARWEEN         | B-TECH CSE   | 1ST | Nanomaterials and Nanotechnology |
| 25 | 2303602 | HAPPY KUMAR          | B-TECH CIVIL | 1ST | Nanomaterials and Nanotechnology |
| 26 | 2303690 | PARDEEP KUMAR        | B.TECH ME    | 1ST | Nanomaterials and Nanotechnology |
| 27 | 2303691 | SHISHIR BADHEN       | B.TECH ME    | 1ST | Nanomaterials and Nanotechnology |



|    |         |                    |           |     |                                  |
|----|---------|--------------------|-----------|-----|----------------------------------|
| 28 | 2303657 | OM attri           | B.TECH EE | 1ST | Nanomaterials and Nanotechnology |
| 29 | 2303656 | Mohd Atif          | B.TECH EE | 1ST | Nanomaterials and Nanotechnology |
| 30 | 2303655 | Akash Kumar Tiwari | B.TECH EE | 1ST | Nanomaterials and Nanotechnology |

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# IETBHADDAL

TECHNICAL  
CAMPUS  
OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

## Academic Year 2023-24

### Activity organized Report

Date : 24.11.2023

|                               |                                                                                                                                                                                                                                                                                                                |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                             |
| Title of Activity             | Renewable Energy Resources                                                                                                                                                                                                                                                                                     |
| Programme                     | B.Tech (CSE,EE,CIVIL)                                                                                                                                                                                                                                                                                          |
| Date of Commencement          | 17.8.2023                                                                                                                                                                                                                                                                                                      |
| Date of Completion            | 24.11.2023                                                                                                                                                                                                                                                                                                     |
| Place of activity             | C Block Seminar Hall                                                                                                                                                                                                                                                                                           |
| No of participants Enrolled   | 22                                                                                                                                                                                                                                                                                                             |
| No of participants completed  | 20                                                                                                                                                                                                                                                                                                             |
| Course Coordinator and Expert | HARPREET SINGH                                                                                                                                                                                                                                                                                                 |
| Summary of activity           | The value added course for the odd Semester During the Academic Year 2023-24 was Successfully Organized .The Course On “RENEWABLE ENERGY RESOURCES” was covered .It Was aimed at various course students to understand resources.A total of 22 students registered for the course and 20 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                |

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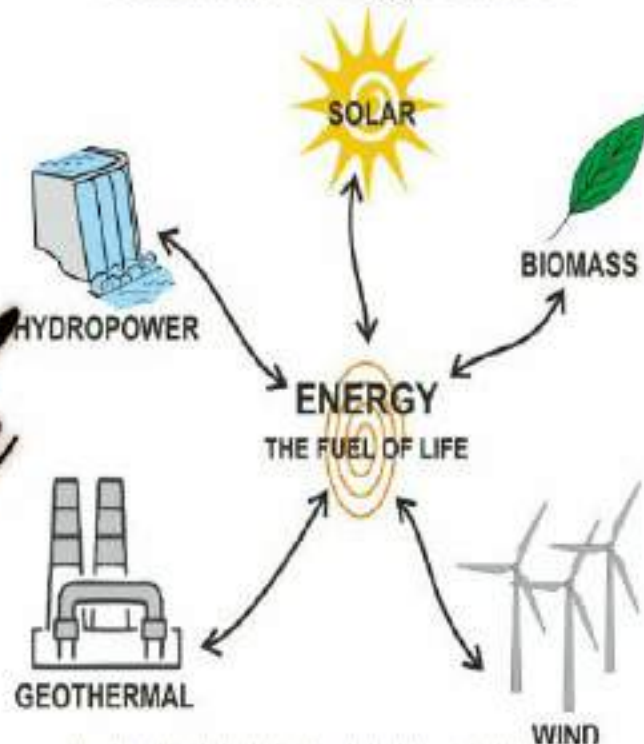
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Value  
Added  
COURSE

Renewable  
energy  
resources

Renewable energy sources



Commencement from:-  
17/8/2023



Coordinator:-  
Harpreet singh  
**Department  
of Mechanical  
Engineering**

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IET/DEPT-EE/134

Date : 17/8/2023

PRINCIPAL  
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ROPAR

**Permission For Conducting value added course and allocate faculty member for same**

It is to bring to your kind notice that following value added course is finalized For academic Year 2023-24-.The details of value added Course is as follow

| S.no | Name of Value Added Course | Class                       | Contact Hrs | Date of Commencement | Expert                    |
|------|----------------------------|-----------------------------|-------------|----------------------|---------------------------|
| 1    | Renewable Energy Resources | B.tech<br>(EE,CSE,ME,CIVIL) | 30          | 17.8.2023            | Mr Harpreet singh ME dept |
|      |                            |                             |             |                      |                           |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

Thanks and Regards

  
Course Coordinator



# IET BHADDAL

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IET/VAC/ME

DATE 18/8/23

## NOTICE

It is for the information of all students of - That ME department is conducting value added course entitled - Renewable Energy Resources from -18/8/2023. The Course is scheduled for ---45 hrs duration.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

Course Coordinator:

Head of Department

Cc : principal ( For Kind information please)

Head Of all Departments ( For Information)

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| S.No | Name            | Duration |      | Name Of Course Renewable |       |       |       |       |       |       |       |       |       | Energy Resources |        |       | Course Duration |  |  | 45 HRS | SIGNATURE |
|------|-----------------|----------|------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|--------|-------|-----------------|--|--|--------|-----------|
|      |                 | 18/8     | 25/8 | 1-Sep                    | 8-Sep | 15-09 | 22-09 | 29-09 | 6-Oct | ##### | ##### | ##### | 3-Nov | 10-Nov           | 17-Nov | ##### |                 |  |  |        |           |
| 1    | AMIT VERMA      | 1        | 2    | 3                        | 4     | ab    | 5     | 6     | ab    | 7     | ab    | 8     | 9     | ab               | 10     | 11    | Amit Verma      |  |  |        |           |
| 2    | BASHAR HOSSEN   | 1        | 2    | 3                        | 4     | ab    | 5     | 6     | ab    | 7     | ab    | 8     | 9     | ab               | 10     | 11    | Bashar Hossen   |  |  |        |           |
| 3    | FAYSAL MONDAL   | 1        | 2    | 3                        | 4     | ab    | 5     | 6     | ab    | 7     | ab    | 8     | 9     | ab               | 10     | 11    | Fayal Mondal    |  |  |        |           |
| 4    | KANIKA          | 1        | 2    | 3                        | 4     | ab    | 5     | 6     | ab    | 7     | ab    | 8     | 9     | ab               | 10     | 11    | Kanika          |  |  |        |           |
| 5    | KRITIKA BANSAL  | 1        | 2    | 3                        | 4     | ab    | 5     | 6     | ab    | 7     | ab    | 8     | 9     | ab               | 10     | 11    | Kritika Bansal  |  |  |        |           |
| 6    | LALIT KUMAR     | 1        | 2    | 3                        | 4     | ab    | 5     | 6     | ab    | 7     | ab    | 8     | 9     | ab               | 10     | 11    | Lalit Kumar     |  |  |        |           |
| 7    | LOVPREET KAUR   | 1        | 2    | 3                        | 4     | ab    | 5     | 6     | ab    | 7     | ab    | 8     | 9     | ab               | 10     | 11    | Lovpreet Kaur   |  |  |        |           |
| 8    | NISHITA THAKUR  | 1        | 2    | 3                        | 4     | ab    | 5     | 6     | ab    | 7     | ab    | 8     | 9     | ab               | 10     | 11    | Nishita Thakur  |  |  |        |           |
| 9    | SAMARUIT JHADAI | 1        | 2    | 3                        | 4     | ab    | 5     | 6     | ab    | 7     | ab    | 8     | 9     | ab               | 10     | 11    | Samaruit Jhadai |  |  |        |           |
| 10   | TANYA MEHRA     | 1        | ab   | 2                        | ab    | ab    | 3     | 4     | ab    | ab    | ab    | 5     | 6     | ab               | 7      | 8     | Tanya Mehra     |  |  |        |           |
| 11   | AVNEET KAUR     | 1        | 2    | 3                        | 4     | ab    | 5     | 6     | ab    | 7     | ab    | 8     | 9     | ab               | 10     | 11    | Avneet Kaur     |  |  |        |           |
| 12   | CHARANJEET      | ab       | 1    | ab                       | 2     | ab    | 3     | 6     | ab    | 7     | ab    | 8     | 9     | ab               | 10     | 11    | Charanjeet      |  |  |        |           |
| 13   | DAMANPREET      | 1        | 2    | 3                        | 4     | ab    | 5     | 6     | ab    | 7     | ab    | 8     | 9     | ab               | 10     | 11    | Damanpreet      |  |  |        |           |
| 14   | RUPESH KUMAR    | 1        | 2    | 3                        | 4     | ab    | 5     | 6     | ab    | 7     | ab    | 8     | 9     | ab               | 10     | 11    | Rupesh Kumar    |  |  |        |           |
| 15   | VARUN SAINI     | 1        | 2    | 3                        | 4     | ab    | 5     | 6     | ab    | 7     | ab    | 8     | 9     | ab               | 10     | 11    | Varun Saini     |  |  |        |           |
| 16   | JEETU KUMAR     | 1        | 2    | 3                        | 4     | ab    | 5     | 6     | ab    | 7     | ab    | 8     | 9     | ab               | 10     | 11    | Jeetu Kumar     |  |  |        |           |
| 17   | NANCY MAHE      | 1        | 2    | 3                        | 4     | ab    | 5     | 6     | ab    | 7     | ab    | 8     | 9     | ab               | 10     | 11    | Nancy Mahe      |  |  |        |           |
| 18   | SUKHCHAIN       | ab       | ab   | 1                        | 2     | ab    | 3     | 4     | ab    | 5     | ab    | 6     | 7     | ab               | 8      | 9     | Sukhchain       |  |  |        |           |
| 19   | SUKHPREET       | 1        | 2    | ab                       | ab    | ab    | 3     | 4     | ab    | 5     | ab    | 6     | 7     | ab               | 8      | 9     | Sukhpreet       |  |  |        |           |
| 20   | TOUJIR HOSSAIN  | ab       | 1    | ab                       | 2     | ab    | 3     | 4     | ab    | 5     | ab    | 6     | 7     | ab               | 8      | 9     | Toujir Hossain  |  |  |        |           |

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## Energy Renewable resources

### Course objectives

- ☐ To understand energy scenario, energy sources and their utilization.
- ☐ To explore society's present needs and future energy demands.
- ☐ To Study the principles of renewable energy conversion systems.
- ☐ To exposed to energy conservation methods.

### Teaching-Learning Process

These are sample Strategies, which teacher can use to accelerate the attainment of the various course outcomes and make Teaching –Learning more effective

1. Use pie chart showing distribution of renewable energy sources
2. Use wind turbine models
3. Use sun path diagrams

### Module-1 (08 hours)

Introduction: Principles of renewable energy; energy and sustainable development, fundamentals and social implications. worldwide renewable energy availability, renewable energy availability in India, brief descriptions on solar energy, wind energy, tidal energy, wave energy, ocean thermal energy, biomass energy, geothermal energy, oil shale. Introduction to Internet of energy (IOE).

### Module-2 (08 hours)

Solar Energy: Fundamentals; Solar Radiation; Estimation of solar radiation on horizontal and inclined surfaces; Solar radiation Measurements- Pyrheliometers, Pyrometer, Sunshine Recorder. Solar Thermal systems: Flat plate collector; Solar distillation; Solar pond electric power plant. Solar electric power generation- Principle of Solar cell, Photovoltaic system for electric power generation, advantages, Disadvantages and applications of solar photovoltaic system.

### Module-3 (08 hours)

Wind Energy: Properties of wind, availability of wind energy in India, wind velocity and power from wind; major problems associated with wind power, Basic components of wind energy conversion system (WECS); Classification of WECS- Horizontal axis- single, double and muliblade system. Vertical axis- Savonius and darrieus types. Biomass Energy: Introduction; Photosynthesis Process; Biofuels; Biomass Resources; Biomass conversion technologies-fixed dome; Urban waste to energy conversion; Biomass gasification (Downdraft) .

### Module-4 (08 hours)



Tidal Power: Tides and waves as energy suppliers and their mechanics; fundamental characteristics of tidal power, harnessing tidal energy, advantages and limitations. Ocean Thermal Energy Conversion: Principle of working, OTEC power stations in the world, problems associated with OTEC.

### **Module-5 (08 hours)**

Green Energy: Introduction, Fuel cells: Classification of fuel cells – H<sub>2</sub>; Operating principles, Zero energy Concepts. Benefits of hydrogen energy, hydrogen production technologies (electrolysis method only), hydrogen energy storage, applications of hydrogen energy, problem associated with hydrogen energy.

### **Course outcome (Course Skill Set)**

At the end of the course the student will be able to:

CO1 Describe the environmental aspects of renewable energy resources. In Comparison with various conventional energy systems, their prospects and limitations.

CO2 Describe the use of solar energy and the various components used in the energy production with respect to applications like-heating, cooling, desalination, power generation.

CO3 Understand the conversion principles of wind and tidal energy

CO4 Understand the concept of biomass energy resources and green energy.

CO5 Acquire the basic knowledge of ocean thermal energy conversion and hydrogen energy.

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2023-24**

| S.NO | ROLL NO | NAME             | BRANCH    | YEAR | VALUE ADDED COURSE         |
|------|---------|------------------|-----------|------|----------------------------|
| 1    | 2303715 | GURDEEP SINGH    | M.TECH EE | 1ST  | Renewable Energy Resources |
| 2    | 2303716 | MD ASHIK ALI     | M.TECH EE | 1ST  | Renewable Energy Resources |
| 3    | 2303717 | MOHD. MUSSA      | M.TECH EE | 1ST  | Renewable Energy Resources |
| 4    | 2303718 | RAMEEZ AFZAL     | M.TECH EE | 1ST  | Renewable Energy Resources |
| 5    | 2303719 | SABA JAFRI       | M.TECH EE | 1ST  | Renewable Energy Resources |
| 6    | 2303720 | SABHA KHATOON    | M.TECH EE | 1ST  | Renewable Energy Resources |
| 7    | 2303721 | ZABIR AHMED      | M.TECH EE | 1ST  | Renewable Energy Resources |
| 8    | 2204582 | AJAZ AHMAD GANAI | M.TECH EE | 2ND  | Renewable Energy Resources |
| 9    | 2204584 | ASIA HANIEF      | M.TECH EE | 2ND  | Renewable Energy Resources |
| 10   | 2204584 | BARKAT ALI LONE  | M.TECH EE | 2ND  | Renewable Energy Resources |
| 11   | 2204585 | GURSEWAK SINGH   | M.TECH EE | 2ND  | Renewable Energy Resources |
| 12   | 2204586 | HARPREET SINGH   | M.TECH EE | 2ND  | Renewable Energy Resources |
| 13   | 2204587 | JASHAN           | M.TECH EE | 2ND  | Renewable                  |

|    |         |                  |              |     |                            |
|----|---------|------------------|--------------|-----|----------------------------|
|    |         | SHARMA           |              |     | Energy Resources           |
| 14 | 2204588 | KARAN KATARIA    | M.TECH EE    | 2ND | Renewable Energy Resources |
| 15 | 2204589 | MANISH KUMAR     | M.TECH EE    | 2ND | Renewable Energy Resources |
| 16 | 2204590 | MIR SHABNUM AZAD | M.TECH EE    | 2ND | Renewable Energy Resources |
| 17 | 2204530 | AKRAM CHOUHAN    | B-TECH CIVIL | 2ND | Renewable Energy Resources |
| 18 | 2204531 | AMIT RANA        | B-TECH CIVIL | 2ND | Renewable Energy Resources |
| 19 | 2204532 | DANISH SULAMON   | B-TECH CIVIL | 2ND | Renewable Energy Resources |
| 20 | 2204533 | DINESH KUMAR     | B-TECH CIVIL | 2ND | Renewable Energy Resources |

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OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**



**Academic Year 2023-24**

**Activity organized Report**

**Date : 16.11.2023**

|                                      |                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name of activity</b>              | Value Added Course                                                                                                                                                                                                                                                                                                     |
| <b>Title of Activity</b>             | CERTIFIED COURSE IN LABOR CODES                                                                                                                                                                                                                                                                                        |
| <b>Programme</b>                     | MBA                                                                                                                                                                                                                                                                                                                    |
| <b>Date of Commencement</b>          | 10.8.2023                                                                                                                                                                                                                                                                                                              |
| <b>Date of Completion</b>            | 16.11.2023                                                                                                                                                                                                                                                                                                             |
| <b>Place of activity</b>             | F BLOACK SEMINAR Hall                                                                                                                                                                                                                                                                                                  |
| <b>No of participants Enrolled</b>   | 23                                                                                                                                                                                                                                                                                                                     |
| <b>No of participants completed</b>  | 20                                                                                                                                                                                                                                                                                                                     |
| <b>Course Coordinator and Expert</b> | Manpreet Kaur                                                                                                                                                                                                                                                                                                          |
| <b>Summary of activity</b>           | The value added course for the ODD Semester During the Academic Year 2023-24 was Successfully Organized .The Course On “CERTIFIED COURSE IN LABOR CODES” was covered .It Was aimed at various course students to understand labor codes .A total of 23 students registered for the course and 20 completed the Course. |
|                                      |                                                                                                                                                                                                                                                                                                                        |

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value added course  
Commencement

from:- 10/8/23

Coordinator:-  
Manpreet  
Kaur

## DEPARTMENT OF MBA

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CAMPUS  
ROPAR

IET/DEPT-MBA/149

Date: 10/8/2023

PRINCIPAL  
IET BHADDAL  
ROPAR

**Permission For Conducting value added course and allocate faculty member for same**

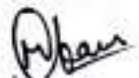
It is to bring to your kind notice that following value added course is finalized For academic Year 2023-24-.The details of value added Course is as follow

| S.no | Name of Value Added Course      | Class | Contact Hrs | Date of Commencement | Expert                 |
|------|---------------------------------|-------|-------------|----------------------|------------------------|
| 1    | Certified Course in labor Codes | MBA   | 30/45       | 10.8.2023            | Ms<br>MANPREET<br>KAUR |
|      |                                 |       |             |                      |                        |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

Course co-ordinator

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IET/VAC/MBA/169

DATE 10/8/2023

## NOTICE

It is for the information of all students of - That **MBA** department is conducting value added course entitled **CERTIFIED COURSE IN LABOR CODES** - from **-10/8/2023**. The Course is scheduled for - **-45 hrs duration**.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

  
Head of Department

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| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                 |                                                |      |      |      |       |      |      |      |       |        |        |       |      |       |        |                    |
|------------------------------------------|-----------------|------------------------------------------------|------|------|------|-------|------|------|------|-------|--------|--------|-------|------|-------|--------|--------------------|
| DURATION 3 HRS                           |                 | Name Of Course Certified Course in labor Codes |      |      |      |       |      |      |      |       |        |        |       |      |       |        |                    |
| S.no                                     | Name            | 10.8.23                                        | 17/8 | 24/8 | 31/8 | 9-Jul | 14/9 | 21/9 | 28/9 | 5-Oct | 12-Oct | 19-Oct | 26/10 | 2/11 | 9-Nov | 16-Nov | Total attendance % |
| 1                                        | AABID YOUSUF    | 1                                              | 2    | ab   | ab   | 3     | ab   | 4    | ab   | 5     | ab     | 6      | 7     | 8    | 9     | ab     | Abi                |
| 2                                        | ABHISHEK KUMAR  | 1                                              | 2    | ab   | ab   | 3     | ab   | 4    | ab   | 5     | ab     | 6      | 7     | 8    | 9     | ab     | Abi                |
| 3                                        | ABHISHEK SHARMA | 1                                              | 2    | ab   | ab   | 3     | ab   | 4    | ab   | 5     | ab     | 6      | 7     | 8    | 9     | ab     | Abi                |
| 4                                        | AJAY KUMAR      | 1                                              | ab   | 2    | ab   | 3     | ab   | 4    | ab   | 5     | 6      | 7      | 8     | ab   | ab    | 9      | Ajay Kumar         |
| 5                                        | ANNU            | 1                                              | ab   | 2    | ab   | 3     | ab   | 4    | ab   | 5     | 6      | 7      | 8     | ab   | ab    | 9      | Annu               |
| 6                                        | ARSHVIR KAUR    | 1                                              | ab   | 2    | ab   | 3     | ab   | 4    | ab   | 5     | 6      | 7      | 8     | ab   | ab    | 9      | Arshvir            |
| 7                                        | BAZILA MUSHTAQ  | 1                                              | ab   | 2    | ab   | 3     | ab   | 4    | ab   | 5     | 6      | 7      | 8     | ab   | ab    | 9      | Bazila Mushtaq     |
| 8                                        | DEEPALI         | 1                                              | ab   | 2    | ab   | 3     | ab   | 4    | ab   | 5     | 6      | 7      | 8     | ab   | ab    | 9      | Deepali            |
| 9                                        | GAGANDEEP       | 1                                              | 2    | ab   | ab   | 3     | ab   | 4    | ab   | 5     | ab     | 6      | 7     | 8    | 9     | ab     | Gagandeep          |
| 10                                       | IMTIYAZ AKRAM   | 1                                              | 2    | ab   | ab   | 3     | ab   | 4    | ab   | 5     | ab     | 6      | 7     | 8    | 9     | ab     | Imtiyaz            |
| 11                                       | JATIN           | 1                                              | 2    | ab   | ab   | 3     | ab   | 4    | ab   | 5     | ab     | 6      | 7     | 8    | 9     | ab     | Jatin              |
| 12                                       | KASHISH BAWA    | 1                                              | 2    | ab   | ab   | 3     | ab   | 4    | ab   | 5     | ab     | 6      | 7     | 8    | 9     | ab     | Kashish            |
| 13                                       | KHUSHBOO        | 1                                              | 2    | ab   | ab   | 3     | ab   | 4    | ab   | 5     | ab     | 6      | 7     | 8    | 9     | ab     | Khushboo           |
| 14                                       | KM SHIWANI RAI  | 1                                              | 2    | ab   | ab   | 3     | ab   | 4    | 5    | ab    | 6      | 7      | 8     | 9    | ab    | ab     | KM Shiwani Rai     |
| 15                                       | MANDEEP SINGH   | 1                                              | 2    | ab   | ab   | 3     | ab   | 4    | 5    | ab    | 6      | 7      | 8     | 9    | ab    | ab     | Mandeep Singh      |
| 16                                       | NAVEEN          | 1                                              | 2    | ab   | ab   | 3     | ab   | 4    | 5    | ab    | 6      | 7      | 8     | 9    | ab    | ab     | Naveen             |
| 17                                       | NAVNEET KAUR    | 1                                              | 2    | ab   | ab   | 3     | ab   | 4    | 5    | ab    | 6      | 7      | 8     | 9    | ab    | ab     | Navneet Kaur       |
| 18                                       | PARDEEP SINGH   | 1                                              | 2    | ab   | ab   | 3     | ab   | 4    | 5    | ab    | 6      | 7      | 8     | 9    | ab    | ab     | Pardeep Singh      |
| 19                                       | PAYAL           | 1                                              | 2    | ab   | ab   | 3     | ab   | 4    | 5    | ab    | 6      | 7      | 8     | 9    | ab    | ab     | Payal              |
| 20                                       | SHARANJEET KAUR | 1                                              | 2    | ab   | ab   | 3     | ab   | 4    | ab   | 5     | ab     | 6      | 7     | 8    | 9     | ab     | Sharanjeet Kaur    |
| 21                                       | SIMRANJIT KAUR  | 1                                              | 2    | ab   | ab   | 3     | ab   | 4    | 5    | ab    | 6      | 7      | 8     | 9    | ab    | ab     | Simranjit Kaur     |
| 22                                       | SOURAV SHARMA   | 1                                              | 2    | ab   | ab   | 3     | ab   | 4    | 5    | ab    | 6      | 7      | 8     | 9    | ab    | ab     | Sourav Sharma      |
| 23                                       | SUMIT KUMAR     | 1                                              | 2    | ab   | ab   | 3     | ab   | 4    | ab   | 5     | ab     | 6      | 7     | 8    | 9     | ab     | Sumit              |

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|----|---------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------------------|
| 30 | RIZWAN AHMAD WANI   | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | AB | 9  | 10 | AB | AB | 11 | 12 | Rizwan Ah           |
| 31 | ROUF AHMAD BHAT     | 1  | 2  | ab | 3  | AB | 4  | 5  | 6  | AB | AB | 7  | 8  | 9  | AB | 10 | Rouf Ahmad Bhat     |
| 32 | SAHIL MANKOTIA      | AB | 1  | 2  | 3  | 4  | AB | AB | 5  | 6  | 7  | 8  | 9  | 10 | 11 | AB | Sahil               |
| 33 | SAMUEL LALNUNPUJA   | 1  | AB | 3  | AB | 4  | 5  | 6  | AB | 7  | 8  | AB | 9  | AB | 10 | 11 | Samuel Lalnunpuja   |
| 34 | SAGIB BASHIR        | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | AB | 9  | 10 | AB | AB | 11 | 12 | Sagib               |
| 35 | SHAH SUHAIB MUSTABA | 1  | 2  | ab | 3  | AB | 4  | 5  | 6  | AB | AB | 7  | 8  | 9  | AB | 10 | Shah Suhaib Mustaba |

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# Certified Course in Labor Codes

## Course Modules:

### Week 1: Introduction to Labor Laws in India, & Employment Contracts and Conditions.

#### Class 1: Overview of Labor Laws

- Understanding the historical context
- Evolution and development of labour laws in India
- Key legislation and their objectives
- Constitutional provisions related to labour rights
- Fundamental rights and directive principles
- Case studies on landmark judgments

#### Class 2: Employment Contracts

- Types of employment contracts
- Essential components of a valid employment contract
- Termination and notice periods
- Working hours and overtime regulations
- Leave policies and benefits
- Workplace safety and health regulations

### Week 2: Industrial Relations

#### Class 3: Trade Unions and Collective Bargaining

- Formation and recognition of trade unions
- Collective bargaining processes
- Strikes, lockouts, and dispute resolution mechanisms

#### Class 4: Industrial Disputes Act

- Understanding the Industrial Disputes Act, 1947
- Dispute resolution procedures
- Case studies on industrial disputes

### Week 3: Social Security and Compliance

#### Class 5: Provident Fund and ESIC

- Overview of Provident Fund (PF) and Employees' State Insurance Corporation (ESIC)
- Compliance requirements and benefits for employees

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## **Week 4: WAGES**

### **Class 6: Minimum Wages and Bonus**

- Minimum wages legislation
- Calculation and payment of bonuses
- Recent amendments and case studies

## **Week 5: Practical**

### **Class 7: Hierarchy of Labour Court.**

- Jurisdiction and Power
- Role of Labour Courts in resolving disputes
- Types of Cases handled by Labour Courts
- Challenges & Issues

### **Class 8: Comprehensive Analysis of Court Proceedings**

- Process of Labour Court
- Preparing plaint
- Stages of Cases in Labour Court & Proceedings

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2023-24**

| S.NO | ROLL NO | NAME            | BRANCH | YEAR | VALUE ADDED COURSE             |
|------|---------|-----------------|--------|------|--------------------------------|
| 1    | 2204453 | AABID YOUSUF    | MBA    | 2ND  | Certified course on labor code |
| 2    | 2204454 | ABHISHEK KUMAR  | MBA    | 2ND  | Certified course on labor code |
| 3    | 2204455 | ABHISHEK SHARMA | MBA    | 2ND  | Certified course on labor code |
| 4    | 2204457 | AJAY KUMAR      | MBA    | 2ND  | Certified course on labor code |
| 5    | 2204460 | ANNU            | MBA    | 2ND  | Certified course on labor code |
| 6    | 2204461 | ARSHVIR KAUR    | MBA    | 2ND  | Certified course on labor code |
| 7    | 2204462 | BAZILA MUSHTAQ  | MBA    | 2ND  | Certified course on labor code |
| 8    | 2204464 | DEEPALI         | MBA    | 2ND  | Certified course on labor code |
| 9    | 2204468 | GAGANDEEP       | MBA    | 2ND  | Certified course on labor code |
| 10   | 2204472 | IMTIYAZ AKRAM   | MBA    | 2ND  | Certified course on labor code |
| 11   | 2204473 | JATIN           | MBA    | 2ND  | Certified course on labor code |
| 12   | 2204475 | KASHISH BAWA    | MBA    | 2ND  | Certified course on labor code |
| 13   | 2204476 | KHUSHBOO        | MBA    | 2ND  | Certified course on labor code |
| 14   | 2204474 | KARAN           | MBA    | 2ND  | Certified course on labor code |
| 15   | 2204477 | MANDEEP SINGH   | MBA    | 2ND  | Certified course on labor code |
| 16   | 2204480 | NAVEEN          | MBA    | 2ND  | Certified course on labor code |
| 17   | 2204481 | NAVNEET KAUR    | MBA    | 2ND  | Certified course on labor code |
| 18   | 2204484 | PARDEEP SINGH   | MBA    | 2ND  | Certified course on labor code |
| 19   | 2204485 | PAYAL           | MBA    | 2ND  | Certified course               |

|    |         |                 |     |     |                                |
|----|---------|-----------------|-----|-----|--------------------------------|
|    |         |                 |     |     | on labor code                  |
| 20 | 2204493 | SHARANJEET KAUR | MBA | 2ND | Certified course on labor code |
| 21 | 2204495 | SIMRANJIT KAUR  | MBA | 2ND | Certified course on labor code |
| 22 | 2204496 | SOURAV SHARMA   | MBA | 2ND | Certified course on labor code |
| 23 | 2204497 | SUMIT KUMAR     | MBA | 2ND | Certified course on labor code |

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Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

Academic Year 2023-24

Activity organized Report

Date : 26.10.2023

|                               |                                                                                                                                                                                                                                                                                                                          |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                       |
| Title of Activity             | Revit structure                                                                                                                                                                                                                                                                                                          |
| Programme                     | B.arch                                                                                                                                                                                                                                                                                                                   |
| Date of Commencement          | 18.7.2023                                                                                                                                                                                                                                                                                                                |
| Date of Completion            | 26.10.2023                                                                                                                                                                                                                                                                                                               |
| Place of activity             | A004                                                                                                                                                                                                                                                                                                                     |
| No of participants Enrolled   | 23                                                                                                                                                                                                                                                                                                                       |
| No of participants completed  | 20                                                                                                                                                                                                                                                                                                                       |
| Course Coordinator and Expert | Disha Thakur                                                                                                                                                                                                                                                                                                             |
| Summary of activity           | The value added course for the odd Semester During the Academic Year 2023-24 was Successfully Organized .The Course On “REVIT STRUCTURE” was covered .It Was aimed at various course students to understand different types of structures .A total of 23 students registered for the course and 20 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                          |

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TECHNICAL  
CAMPUS  
ROPAR



value  
added  
course



Commencement

from:-

18/7/2023

# Revit

# Architecture

**Coordinator:-**

**Disha Thakur**

Department  
of  
Architecture



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IET/DEPT- Academy /17

Date: 18/7/2023

PRINCIPAL  
IET BHADDAL  
ROPAR

**Permission For Conducting value added course and allocate faculty member for same**

It is to bring to your kind notice that following value added course is finalized For academic Year 2023-24-.The details of value added Course is as follow

| S.no | Name of Value Added Course | Class  | Contact Hrs | Date of Commencement | Expert          |
|------|----------------------------|--------|-------------|----------------------|-----------------|
| 1    | Revit Structure            | B.arch | 30/45       | 18.7.2023            | Ms Disha Thakur |
|      |                            |        |             |                      |                 |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

Course co-ordinator

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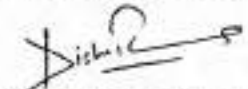
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DATE 20/7/2023

## NOTICE

It is for the information of all students of - BArch department is conducting value added course entitled Revit Structure - from -20/7/2023. The Course is scheduled for -45 hrs duration.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

  
Head of the department

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Cc : principal ( For Kind information please)  
Head Of all Departments ( For Information)  
IQAC  
ALL the notice boards

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Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)



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Dept of Archt - 2023-24

| ATTENDANCE SHEET FOR VALUE ADDED COURSE |                     |                                |           |          |          |      |      |      |      |      |      |      |       |        |       |       |                        |
|-----------------------------------------|---------------------|--------------------------------|-----------|----------|----------|------|------|------|------|------|------|------|-------|--------|-------|-------|------------------------|
| DURATION 3HR                            |                     | Name Of Course Revit Structure |           |          |          |      |      |      |      |      |      |      |       |        |       |       |                        |
| S.no                                    | Name                | 19.7.2023                      | 26.7.2023 | 2.8.2023 | 9.8.2023 | 16/8 | 23/8 | 30/8 | 6/9/ | 13/9 | 20/9 | 27/9 | 4/10/ | 11/10/ | 19/10 | 26/10 | SIGNATURE              |
| 1                                       | AKSHAY GOYAL        | 1                              | 2         | ab       | 3        | 4    | 5    | ab   | ab   | 6    | 7    | 8    | ab    | 9      | ab    | 10    | <i>Akshay</i>          |
| 2                                       | ASHWINI THAKREY     | 1                              | 2         | ab       | 3        | 4    | 5    | ab   | ab   | 6    | 7    | 8    | ab    | 9      | ab    | 10    | <i>AT</i>              |
| 3                                       | DIKSHA SHARMA       | 1                              | 2         | ab       | 3        | 4    | 5    | ab   | ab   | 6    | 7    | 8    | ab    | 9      | ab    | 10    | <i>D.S.</i>            |
| 4                                       | INDERPREET KAUR     | 1                              | ab        | 2        | 3        | ab   | 4    | ab   | 5    | 6    | ab   | 7    | 8     | ab     | 9     | ab    | <i>Indu Pk</i>         |
| 5                                       | JETHRO BANDA        | 1                              | ab        | 2        | 3        | ab   | 4    | ab   | 5    | 6    | ab   | 7    | 8     | ab     | 9     | ab    | <i>Jethro Banda</i>    |
| 6                                       | SIMRANJOT SINGH     | 1                              | ab        | 2        | 3        | ab   | 4    | ab   | 5    | 6    | ab   | 7    | 8     | ab     | 9     | ab    | <i>Simranjot Singh</i> |
| 7                                       | EMANJAP KAUR        | 1                              | ab        | 2        | 3        | ab   | 4    | ab   | 5    | 6    | ab   | 7    | 8     | ab     | 9     | ab    | <i>Emanjap</i>         |
| 8                                       | RAMANPREET KAUR     | 1                              | ab        | 2        | 3        | ab   | 4    | ab   | 5    | 6    | ab   | 7    | 8     | ab     | 9     | ab    | <i>Ramanpreet</i>      |
| 9                                       | AMIT SINGH          | 1                              | ab        | 2        | 3        | ab   | 4    | ab   | 5    | 6    | ab   | 7    | 8     | ab     | 9     | ab    |                        |
| 10                                      | JASMEET SINGH       | 1                              | 2         | ab       | 3        | 4    | ab   | 5    | ab   | 6    | 7    | 8    | ab    | 9      | ab    | 10    | <i>Jasmeet Singh</i>   |
| 11                                      | MOHIT AGGARWAL      | 1                              | 2         | ab       | 3        | 4    | ab   | 5    | ab   | 6    | 7    | 8    | ab    | 9      | ab    | 10    | <i>Mohit</i>           |
| 12                                      | ARUN BISHI          | 1                              | 2         | ab       | 3        | 4    | ab   | 5    | ab   | 6    | 7    | 8    | ab    | 9      | ab    | 10    | <i>Arun</i>            |
| 13                                      | NITESH SHARMA       | 1                              | 2         | ab       | 3        | 4    | ab   | 5    | ab   | 6    | 7    | 8    | ab    | 9      | ab    | 10    | <i>Nitesh</i>          |
| 14                                      | PRIYANSHU SINGH     | 1                              | 2         | ab       | 3        | 4    | ab   | 5    | ab   | 6    | 7    | 8    | ab    | 9      | ab    | 10    | <i>P. Singh</i>        |
| 15                                      | SHEFALI             | 1                              | 2         | ab       | 3        | 4    | ab   | 5    | ab   | 6    | 7    | 8    | ab    | 9      | ab    | 10    | <i>Shefali</i>         |
| 16                                      | AJAY KUMAR          | 1                              | 2         | ab       | 3        | 4    | ab   | 5    | ab   | 6    | 7    | 8    | ab    | 9      | ab    | 10    | <i>Ajay Kumar</i>      |
| 17                                      | JAGMEET SINGH       | 1                              | 2         | ab       | 3        | 4    | ab   | 5    | ab   | 6    | 7    | 8    | ab    | 9      | ab    | 10    | <i>Jagmeet</i>         |
| 18                                      | PARDEEP KUMAR       | 1                              | 2         | ab       | 3        | 4    | ab   | 5    | ab   | 6    | 7    | 8    | ab    | 9      | ab    | 10    | <i>Pardeep</i>         |
| 19                                      | Prabhleen Kaur Tuli | 1                              | 2         | ab       | 3        | 4    | ab   | 5    | ab   | 6    | 7    | 8    | ab    | 9      | ab    | 10    | <i>Prabhleen</i>       |
| 20                                      | Priya Ranjan Kumar  | 1                              | 2         | ab       | 3        | 4    | ab   | 5    | ab   | 6    | 7    | 8    | ab    | 9      | ab    | 10    | <i>Priya</i>           |
| 21                                      | RIYA                | 1                              | 2         | ab       | 3        | 4    | ab   | 5    | ab   | 6    | 7    | 8    | ab    | 9      | ab    | 10    | <i>Riya</i>            |
| 22                                      | SAURABH KUMAR       | 1                              | 2         | ab       | 3        | 4    | ab   | 5    | ab   | 6    | 7    | 8    | ab    | 9      | ab    | 10    | <i>Saurabh</i>         |
| 23                                      | VIKRANT             | 1                              | 2         | ab       | 3        | 4    | ab   | 5    | ab   | 6    | 7    | 8    | ab    | 9      | ab    | 10    | <i>Vikrant</i>         |

*Singh*

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# REVIT STRUCTURE

## 1. New Features

## 2. New Features for Revit Structure

- a. Introduction to Autodesk Revit Structure b. Basic Concepts and Principles
- c. The Revit Structure User Interface d. Building Information Modeling and Revit Structure, Getting Help

## 3. Getting Started with a Structural Project

- a. Starting a New Structural Project b. Snaps Tool, Opening, Saving and Closing a Project c. Options Dialog Box

## 4. Setting up a Structural Project

- a. Creating Project Templates b. Using Levels c. Using Grids d. Working with Reference Planes

## 5. Structural Columns and Walls

- a. Structural Columns b. Structural Wall

## 6. Foundations, Beams, Floors, and Open Web Joists

- a. Understanding Foundations b. Adding Foundations c. Structural Floors d. Beams and Open Web Joists

## 7. Editing Tools

- a. Creating Selection Sets b. Moving and Copying c. Rotating, Mirroring and Arraying d. Additional Editing Tools, Creating Groups

## 8. Documenting Models and Creating Families

- a. Dimensioning b. Adding Text and Tags c. Creating Families

## 9. Standard Views, Details, and Schedules

- a. Standard Views b. Callout Views c. Drafting Details d. Graphical Column Schedules

## 10. 3D Views, Sheets, Analysis, Reinforcements, and Massing

- a. 3D Views, Generating Shadows and Solar Studies b. Working with Sheets c. Understanding the Analytical Model d. Working with Analytical Models e. Adding Reinforcements, Linking Building Models f. Introducing Massing g. Editing Massing Geometry h. Creating Building Elements from Massing Geometry

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2023-24**

| S.NO | ROLL NO | NAME                | BRANCH | YEAR | VALUE ADDED COURSE |
|------|---------|---------------------|--------|------|--------------------|
| 1    | 1906392 | AKSHAY GOYAL        | B.arch | 5TH  | Revit Structure    |
| 2    | 1906393 | ASHWINI THAKREY     | B.arch | 5TH  | Revit Structure    |
| 3    | 1906394 | DIKSHA SHARMA       | B.arch | 5TH  | Revit Structure    |
| 4    | 1906396 | INDERPREET KAUR     | B.arch | 5TH  | Revit Structure    |
| 5    | 1906397 | JETHRO BANDA        | B.arch | 5TH  | Revit Structure    |
| 6    | 1935286 | SIMRANJOT SINGH     | B.arch | 5TH  | Revit Structure    |
| 7    | 2005281 | EMANJAP KAUR        | B.arch | 4TH  | Revit Structure    |
| 8    | 2005282 | RAMANPREET KAUR     | B.arch | 4TH  | Revit Structure    |
| 9    | 2105015 | AMIT SINGH          | B.arch | 3RD  | Revit Structure    |
| 10   | 2105017 | JASMEET SINGH       | B.arch | 3RD  | Revit Structure    |
| 11   | 2105018 | MOHIT AGGARWAL      | B.arch | 3RD  | Revit Structure    |
| 12   | 2204377 | ARUN BISHT          | B.arch | 2ND  | Revit Structure    |
| 13   | 2204378 | NITESH SHARMA       | B.arch | 2ND  | Revit Structure    |
| 14   | 2204379 | PRIYANSHU SINGH     | B.arch | 2ND  | Revit Structure    |
| 15   | 2204380 | SHEFALI             | B.arch | 2ND  | Revit Structure    |
| 16   | 2303594 | AJAY KUMAR          | B.arch | 1st  | Revit Structure    |
| 17   | 2303595 | JAGMEET SINGH       | B.arch | 1st  | Revit Structure    |
| 18   | 2303597 | PARDEEP KUMAR       | B.arch | 1st  | Revit Structure    |
| 19   | 2339635 | Prabhleen Kaur Tuli | B.arch | 1st  | Revit Structure    |
| 20   | 2303598 | Priya Ranjan Kumar  | B.arch | 1st  | Revit Structure    |
| 21   | 2303600 | RIYA                | B.arch | 1st  | Revit Structure    |
| 22   | 2303601 | SAURABH KUMAR       | B.arch | 1st  | Revit Structure    |
| 23   | 2339636 | VIKRAM SINGH        | B.arch | 1st  | Revit Structure    |
|      |         |                     |        |      |                    |

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Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**



## Academic Year 2023-24

### Activity organized Report

Date : 27.11.2023

|                               |                                                                                                                                                                                                                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                  |
| Title of Activity             | Abode Tools                                                                                                                                                                                                                                                                                         |
| Programme                     | B.Tech CSE, MCA                                                                                                                                                                                                                                                                                     |
| Date of Commencement          | 21.8.2023                                                                                                                                                                                                                                                                                           |
| Date of Completion            | 27.11.2023                                                                                                                                                                                                                                                                                          |
| Place of activity             | B220                                                                                                                                                                                                                                                                                                |
| No of participants Enrolled   | 17                                                                                                                                                                                                                                                                                                  |
| No of participants completed  | 15                                                                                                                                                                                                                                                                                                  |
| Course Coordinator and Expert | Pravneet Kaur                                                                                                                                                                                                                                                                                       |
| Summary of activity           | The value added course for the odd Semester During the Academic Year 2023-24 was Successfully Organized .The Course On “ABODE TOOLS ” was covered .It Was aimed at various course students to understand abode tools .A total of 17 students registered for the course and 15 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                     |

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# Adobe®



Photoshop



Encore



After Effects



Premiere Pro



InDesign



Flash



Flash Builder



Illustrator



Bridge



Fireworks



Dreamweaver



Audition



SpeedGrade



Prelude



Lightroom

*value  
added  
course*

*Commencement from:- 21/8/23*

*Coordinator:- Dr. Pravneet  
Department of Computer science & Engineering*

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# IET BHADDAL

Campus: Bhaddal, PO Manpur, Distt. Ropar, Punjab-140108 (India)  
UGC approved (2f & 12B) | Affiliated to IKG-PTU (Jalandhar)

TECHNICAL  
CAMPUS  
ROPAR

IET/DEPT CE/148

Date : 21/8/2023

PRINCIPAL  
IET BHADDAL  
ROPAR

Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2023-24. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class            | Contact Hrs | Date of Commencement | Expert      |
|------|----------------------------|------------------|-------------|----------------------|-------------|
| 1    | Abode Tools                | B.tech (CSE,MCA) | 30/45       | 21.8.2023            | Dr Pravneet |
|      |                            |                  |             |                      |             |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

  
Course Coordinator

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)



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# IET BHADDAL

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ROPAR

IET/VAC/CSB/173

DATE 21/8/2023

## NOTICE

It is for the information of all students of - That **CSB** department is conducting value added course entitled - from **-21/8/2023**. The Course is scheduled for ---30 hrs duration.

The value added course aims at value addition and holistic development of the participants, Interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course Coordinator:

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Head of Department

Cc: principal ( For Kind information please)

Head Of all Departments ( For Information)

IQAC

ALL the notice boards

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Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)

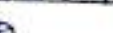
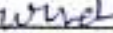


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Dept of CSB

2023-24

| DURATION 3HR/WEEK |                 |             |      |     |        | Name Of Course Abode tools |      |      |       |        |       |       |         |          | Course Duration 45 HRS |          |                                                                                     |  |  |
|-------------------|-----------------|-------------|------|-----|--------|----------------------------|------|------|-------|--------|-------|-------|---------|----------|------------------------|----------|-------------------------------------------------------------------------------------|--|--|
| S.no              | Name            | 21/8        | 28/8 | 4/9 | 11-Sep | 18/9                       | 25/9 | 2/10 | 9-Oct | 16-Oct | 23/10 | 30/10 | 6th nov | 13th nov | 20th nov               | 27th nov | SIGNATURE                                                                           |  |  |
| 1                 | AMANDEEP SINGH  | 1           | 2    | 3   | 4      | AB                         | AB   | 5    | 6     | 7      | AB    | 8     | AB      | 9        | 10                     | AB       |  |  |  |
| 2                 | ANIKET KUMAR    | 1           | 2    | 3   | 4      | AB                         | AB   | 5    | 6     | 7      | AB    | 8     | AB      | 9        | 10                     | AB       |  |  |  |
| 3                 | ANSHDEEP        | 1           | 2    | AB  | AB     | 3                          | 4    | AB   | 5     | 6      | 7     | 8     | 9       | 10       | AB                     | AB       |  |  |  |
| 4                 | ARSHDEEP SINGH  | 1           | 2    | AB  | AB     | 3                          | 4    | AB   | 5     | 6      | 7     | 8     | 9       | 10       | AB                     | AB       |  |  |  |
| 5                 | GAGANDEEP       | NOT<br>REGI |      |     |        |                            |      |      |       |        |       |       |         |          |                        |          |  |  |  |
| 6                 | GURINDER KAUR   | 1           | 2    | 3   | 4      | AB                         | AB   | 5    | 6     | 7      | AB    | 8     | AB      | 9        | 10                     | AB       |  |  |  |
| 7                 | POOJA           | 1           | 2    | 3   | 4      | AB                         | AB   | 5    | 6     | 7      | AB    | 8     | AB      | 9        | 10                     | AB       |  |  |  |
| 8                 | RITIKA THAKUR   | 1           | 2    | 3   | 4      | AB                         | AB   | 5    | 6     | 7      | AB    | 8     | AB      | 9        | 10                     | AB       |  |  |  |
| 9                 | ROSHAN KUMAR    | AB          | AB   | 1   | 2      | 3                          | 4    | 5    | 6     | 7      | AB    | 8     | AB      | 9        | 10                     | AB       |  |  |  |
| 10                | SONU.           | AB          | AB   | 1   | 2      | 3                          | 4    | 5    | 6     | 7      | AB    | 8     | AB      | 9        | 10                     | AB       |  |  |  |
| 11                | MANSI KATOCH    | 1           | 2    | AB  | AB     | 3                          | 4    | 5    | 6     | 7      | AB    | 8     | AB      | 9        | AB                     | AB       |  |  |  |
| 12                | ANJALI          | NR          |      |     |        |                            |      |      |       |        |       |       |         |          |                        |          |  |  |  |
| 13                | JASPREET KAUR   | 1           | 2    | 3   | AB     | 4                          | AB   | 5    | AB    | 6      | 7     | 8     | AB      | 9        | 10                     | AB       |  |  |  |
| 14                | JATINDER KAUR   | 1           | 2    | 3   | AB     | 4                          | AB   | 5    | AB    | 6      | 7     | 8     | AB      | 9        | 10                     | AB       |  |  |  |
| 15                | KULWINDER SINGH | 1           | 2    | 3   | AB     | 4                          | AB   | 5    | AB    | 6      | 7     | 8     | AB      | 9        | 10                     | AB       |  |  |  |
| 16                | RAJNI           | 1           | 2    | 3   | AB     | 4                          | AB   | 5    | AB    | 6      | 7     | 8     | AB      | 9        | 10                     | AB       |  |  |  |
| 17                | RUPINDER KAUR   | 1           | 2    | 3   | AB     | 4                          | AB   | 5    | AB    | 6      | 7     | 8     | AB      | 9        | 10                     | AB       |  |  |  |

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## ABODE TOOLS

### SYLLABUS

#### COURSE SYLLABUS

**OBJECTIVE** Learn to work with Adobe Acrobat to convert documents into PDFs, manipulate, merge, arrange, share, and protect PDF files. Convert electronic files and scanned paper documents into a standard PDF format.

- How to install Adobe Acrobat DC
- How to launch Adobe Acrobat DC
- How to navigate the workspace
- Creating PDFs
- How to create a PDF from an image
- How to create a PDF from a scanner
- How to create a form
- How to combine files into a single PDF
- Editing PDFs
- How to edit text in a PDF
- How to add images to a PDF
- How to delete pages from a PDF
- How to organize pages in a PDF
- How to add bookmarks to a PDF
- Reviewing, Security, and Signing
- How to use the comment tools
- How to add a password to a PDF
- How to digitally sign a PDF
- How to redact a PDF
- Exporting and Sharing
- How to export a PDF to Microsoft Word
- How to export a PDF to Excel

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2023-24**

| S.NO | ROLL NO | NAME             | BRANCH     | YEAR | VALUE ADDED COURSE |
|------|---------|------------------|------------|------|--------------------|
| 1    | 2005288 | AMANDEEP SINGH   | B.Tech CSE | 4TH  | ABODE TOOLS        |
| 2    | 2005289 | ANIKET KUMAR     | B.Tech CSE | 4TH  | ABODE TOOLS        |
| 3    | 2005290 | ANSHDEEP BHATHAL | B.Tech CSE | 4TH  | ABODE TOOLS        |
| 4    | 2005291 | ARSHDEEP SINGH   | B.Tech CSE | 4TH  | ABODE TOOLS        |
| 5    | 2005292 | GAGANDEEP        | B.Tech CSE | 4TH  | ABODE TOOLS        |
| 6    | 2005293 | GURINDER KAUR    | B.Tech CSE | 4TH  | ABODE TOOLS        |
| 7    | 2005298 | POOJA            | B.Tech CSE | 4TH  | ABODE TOOLS        |
| 8    | 2005299 | RITIKA THAKUR    | B.Tech CSE | 4TH  | ABODE TOOLS        |
| 9    | 2005300 | ROSHAN KUMAR     | B.Tech CSE | 4TH  | ABODE TOOLS        |
| 10   | 2005301 | SONU             | B.Tech CSE | 4TH  | ABODE TOOLS        |
| 11   | 2303685 | MANSI KATOCH     | MCA        | 1ST  | ABODE TOOLS        |
| 12   | 2303680 | ANJALI           | MCA        | 1ST  | ABODE TOOLS        |
| 13   | 2303681 | JASPREET KAUR    | MCA        | 1ST  | ABODE TOOLS        |
| 14   | 2303682 | JATINDER KAUR    | MCA        | 1ST  | ABODE TOOLS        |
| 15   | 2303683 | KULWINDER SINGH  | MCA        | 1ST  | ABODE TOOLS        |
| 16   | 2303688 | RAJNI            | MCA        | 1ST  | ABODE TOOLS        |
| 17   | 2303689 | RUPINDER KAUR    | MCA        | 1ST  | ABODE TOOLS        |

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# IETBHADDAL

TECHNICAL  
CAMPUS  
OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**



## Academic Year 2023-24

### Activity organized Report

Date : 30.04.2024

|                               |                                                                                                                                                                                                                                                                                                        |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                     |
| Title of Activity             | Business Finance                                                                                                                                                                                                                                                                                       |
| Programme                     | MBA ,Bcom                                                                                                                                                                                                                                                                                              |
| Date of Commencement          | 23.1.2024                                                                                                                                                                                                                                                                                              |
| Date of Completion            | 30.4.2024                                                                                                                                                                                                                                                                                              |
| Place of activity             | F Block Seminar Hall                                                                                                                                                                                                                                                                                   |
| No of participants Enrolled   | 24                                                                                                                                                                                                                                                                                                     |
| No of participants completed  | 22                                                                                                                                                                                                                                                                                                     |
| Course Coordinator and Expert | Ms Bhawna                                                                                                                                                                                                                                                                                              |
| Summary of activity           | The value added course for the Even Semester During the Academic Year 2023-24 was Successfully Organized .The Course On “ BUSINESS FINANCE ” was covered .It Was aimed at various course students to understand finance .A total of 24 students registered for the course and 22 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                        |

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## ***Business Finance***



***Commencement  
from:- 23/7/2024***

***Coordinator:-  
Ms. Bhawna***  
Department of MBA

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IET/DEPT MBA / 333

Date : 23/1/2024

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Permission For Conducting value added course and allocate faculty member for same

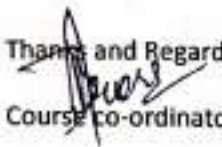
It is to bring to your kind notice that following value added course is finalized For academic Year 2023-24-.The details of value added Course is as follow

| S.no | Name of Value Added Course | Class     | Contact Hrs | Date of Commencement | Expert    |
|------|----------------------------|-----------|-------------|----------------------|-----------|
| 1    | Business Finance           | MBA, Bcom | 30/45       | 23.01.2024           | Ms Bhwana |
|      |                            |           |             |                      |           |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards  
  
Course co-ordinator





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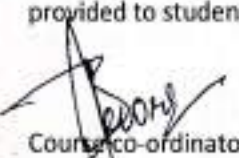
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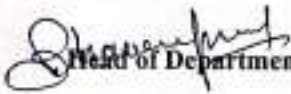
DATE 23/1/2024

## NOTICE

It is for the information of all students of - That **MBA** department is conducting value added course entitled -Business Finance from -23/1 /2024.The Course is scheduled for ---30 hrs duration.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator.The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

  
Head of Department

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Cc : principal ( For Kind information please)

Head Of all Departments ( For Information)

IQAC

ALL the notice boards

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Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)





| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                    |      |                                 |      |      |      |      |      |        |      |      |      |      |      |      |      |               |
|------------------------------------------|--------------------|------|---------------------------------|------|------|------|------|------|--------|------|------|------|------|------|------|------|---------------|
| DURATION 3HRS/WEEK                       |                    |      | Name Of Course Business Finance |      |      |      |      |      |        |      |      |      |      |      |      |      |               |
| S.no                                     | Name               | 23/1 | 30/1                            | 6/2/ | 13/2 | 20/2 | 27/2 | 5/3/ | 12-Mar | 19/3 | 26/3 | 2/4/ | 9/4/ | 16/4 | 23/4 | 30/4 | SIGNATURE     |
| 1                                        | AADIL BASHIR       | 1    | 2                               | 3    | AB   | AB   | 4    | 5    | AB     | 6    | 7    | 8    | AB   | 9    | 10   | 11   | Aadil Bashir  |
| 2                                        | AMANPREET KAUR     | AB   | AB                              | 1    | 2    | 3    | AB   | 4    | 5      | 6    | AB   | 7    | 8    | 9    | AB   | 10   | Amanpreet     |
| 3                                        | AMANPREET KAUR     | 1    | 2                               | 3    | 4    | 5    | 6    | AB   | AB     | AB   | 7    | 8    | 9    | AB   | 10   | 11   | Amanpreet     |
| 4                                        | AVINASH SINGH      | 1    | 2                               | 3    | 4    | 5    | 6    | 7    | AB     | 8    | 9    | 10   | AB   | 11   | 12   | 13   | AVINASH SINGH |
| 5                                        | BHATTAL PARAMINDER | 1    | 2                               | 3    | 4    | 5    | 6    | 7    | AB     | 8    | 9    | 10   | AB   | 11   | 12   | 13   |               |
| 6                                        | FAIKA MUKHTAR      | 1    | 2                               | 3    | 4    | 5    | 6    | 7    | AB     | 8    | 9    | 10   | AB   | 11   | 12   | 13   |               |
| 7                                        | GOVIND GIRI        | 1    | 2                               | 3    | 4    | 5    | 6    | 7    | AB     | 8    | 9    | 10   | AB   | 11   | 12   | 13   | Govind Giri   |
| 8                                        | HARKRISHAN         | 1    | 2                               | 3    | 4    | 5    | 6    | 7    | AB     | 8    | 9    | 10   | AB   | 11   | 12   | 13   | Harkrishan    |
| 9                                        | KARAN KUMAR        | 1    | 2                               | 3    | 4    | 5    | 6    | 7    | AB     | 8    | 9    | 10   | AB   | 11   | 12   | 13   | Karan Kumar   |
| 10                                       | KHANDOKER MD ABUL  | 1    | 2                               | 3    | 4    | 5    | 6    | AB   | 7      | 8    | 9    | 10   | AB   | 11   | 12   | 13   | Khandoker     |
| 11                                       | KIRANDEEP KAUR     | 1    | 2                               | 3    | 4    | 5    | 6    | AB   | AB     | 8    | 9    | 10   | AB   | 11   | 12   | 13   | Kiran         |
| 12                                       | KIRANPREET KAUR    | 1    | 2                               | 3    | 4    | 5    | 6    | AB   | AB     | 8    | 9    | 10   | AB   | 11   | 12   | 13   | Kiranpreet    |
| 13                                       | MANDEEP KAUR       | 1    | 2                               | 3    | 4    | 5    | 6    | AB   | AB     | 8    | 9    | 10   | AB   | 11   | 12   | 13   | Mandeep       |
| 14                                       | MANDEEP KAUR       | 1    | 2                               | 3    | 4    | 5    | 6    | AB   | AB     | 8    | 9    | 10   | AB   | 11   | 12   | 13   | Mandeep       |
| 15                                       | MANISHA            | 1    | 2                               | 3    | 4    | 5    | 6    | AB   | AB     | 8    | 9    | 10   | AB   | 11   | 12   | 13   | Manisha       |
| 16                                       | MIR SHEEZAN HANIEF | 1    | 2                               | 3    | 4    | 5    | 6    | AB   | AB     | 8    | 9    | 10   | AB   | 11   | 12   | 13   | Mir Sheezan   |
| 17                                       | MUSKAN             | 1    | 2                               | 3    | 4    | 5    | 6    | AB   | AB     | 8    | 9    | 10   | AB   | 11   | 12   | 13   | Muskan        |
| 18                                       | PANKAJ KUMAR       | 1    | 2                               | 3    | 4    | 5    | 6    | AB   | AB     | 8    | 9    | 10   | AB   | 11   | 12   | 13   | Pankaj        |
| 19                                       | SHIVA MAHAJAN      | 1    | 2                               | 3    | 4    | 5    | 6    | AB   | AB     | 8    | 9    | 10   | AB   | 11   | 12   | 13   | Shiva         |
| 20                                       | SHIVANSH PAHUJA    | 1    | 2                               | 3    | 4    | 5    | 6    | 7    | AB     | 8    | 9    | 10   | AB   | 11   | 12   | 13   | Shivansh      |
| 21                                       | VISHAL THAKUR      | 1    | 2                               | 3    | 4    | 5    | 6    | 7    | AB     | 8    | 9    | 10   | AB   | 11   | 12   | 13   | Vishal        |
| 22                                       | SIMRANJEET KAUR    | 1    | 2                               | 3    | 4    | 5    | 6    | 7    | AB     | 8    | 9    | 10   | AB   | 11   | 12   | 13   | Simranjeet    |
| 23                                       | MANPREET           | 1    | 2                               | 3    | 4    | 5    | 6    | 7    | AB     | 8    | 9    | 10   | AB   | 11   | 12   | 13   | Manpreet      |
| 24                                       | JATINDER KAUR      | 1    | 2                               | 3    | 4    | 5    | 6    | 7    | AB     | 8    | 9    | 10   | AB   | 11   | 12   | 13   | Jatinder      |

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## **Business Finance**

### **SYLLABUS**

#### **UNIT I: Nature and Objectives of Business Finance**

Meaning of business finance, business finance v/s corporate finance, role of business finance in an organization, principles of business finance, meaning of financial planning, steps in planning, financial significance of financial planning, essential features of a good financial plan, types of financial plan.

#### **UNIT II: Classification of Capital**

Meaning of Capital, Classification of capital, factors determining capital requirements, meaning, features and sources of fixed capital, factors determining fixed capital requirements, importance of adequate fixed capital; meaning, features and sources of working capital, Factors determining working capital requirements, significance of adequate Working capital, types of working capital

#### **UNIT III: Capitalization**

Meaning of capitalization, Theories of capitalization, Cost theory v/s Earnings theory, overcapitalization and under capitalization, meaning, causes, effects and remedies; overcapitalization v/s under capitalization; balanced capitalization, meaning and importance

#### **UNIT IV: Capital Structure**

Concept of capital structure, Meaning and importance of capital structure, factors affecting capital structure, concept of financial structure, capital gearing, meaning, types and advantages, trading on equity, meaning, types and advantages and limitations.

#### **References:**

##### **Books**

1. Sharma, R.K. & Gupta, Shashi., K. Business Organisation and Management
2. Srivastava, R.M. Essentials of Business Finance, Himalaya Publishing House, Kalyani Publications.
3. Singh, Preeti. Investment Management. Himalaya Publishing House

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2023-24**

| S.NO | ROLL NO | NAME                           | BRANCH | YEAR | VALUE ADDED COURSE |
|------|---------|--------------------------------|--------|------|--------------------|
| 1    | 2339641 | AADIL BASHIR                   | MBA    | 1ST  | Business Finance   |
| 2    | 2303659 | AMANPREET KAUR                 | MBA    | 1ST  | Business Finance   |
| 3    | 2303659 | AMANPREET KAUR                 | MBA    | 1ST  | Business Finance   |
| 4    | 2303662 | AVINASH SINGH                  | MBA    | 1ST  | Business Finance   |
| 5    | 2303663 | BHATTAL PARAMINDER KAUR        | MBA    | 1ST  | Business Finance   |
| 6    | 2339642 | FAIKA MUKHTAR                  | MBA    | 1ST  | Business Finance   |
| 7    | 2303664 | GOVIND GIRI                    | MBA    | 1ST  | Business Finance   |
| 8    | 2303666 | HARKRISHAN                     | MBA    | 1ST  | Business Finance   |
| 9    | 2303667 | KARAN KUMAR                    | MBA    | 1ST  | Business Finance   |
| 10   | 2339643 | KHANDOKER MD ABUL HASNAT FAHIM | MBA    | 1ST  | Business Finance   |
| 11   | 2303668 | KIRANDEEP KAUR                 | MBA    | 1ST  | Business Finance   |
| 12   | 2303669 | KIRANPREET KAUR                | MBA    | 1ST  | Business Finance   |
| 13   | 2303671 | MANDEEP KAUR                   | MBA    | 1ST  | Business Finance   |
| 14   | 2303670 | MANDEEP KAUR                   | MBA    | 1ST  | Business Finance   |
| 15   | 2303672 | MANISHA                        | MBA    | 1ST  | Business Finance   |
| 16   | 2339644 | MIR SHEEZAN HANIEF             | MBA    | 1st  | Business Finance   |
| 17   | 2303674 | MUSKAN                         | MBA    | 1st  | Business Finance   |
| 18   | 2303675 | PANKAJ                         | MBA    | 1st  | Business           |

|    |         |                     |     |                 |                     |
|----|---------|---------------------|-----|-----------------|---------------------|
|    |         | KUMAR               |     |                 | Finance             |
| 19 | 2303676 | SHIVA<br>MAHAJAN    | MBA | 1st             | Business<br>Finance |
| 20 | 2339645 | SHIVANSH<br>PAHUJA  | MBA | 1st             | Business<br>Finance |
| 21 | 2303679 | VISHAL<br>THAKUR    | MBA | 1st             | Business<br>Finance |
| 22 | 2303677 | SIMRANJEET<br>KAUR  | MBA | 1ST             | Business<br>Finance |
| 23 | 2303673 | MANPREET            | MBA | 1ST             | Business<br>Finance |
| 24 | 2303678 | SYED WAJID<br>RIZVI | MBA | 1 <sup>ST</sup> | Business<br>Finance |

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# IETBHADDAL

TECHNICAL  
CAMPUS  
OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

**Academic Year 2023-24**

**Activity organized Report**

**Date: 05.02.2024**

|                                      |                                                                                                                                                                                                                                                                                                           |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name of activity</b>              | Value Added Course                                                                                                                                                                                                                                                                                        |
| <b>Title of Activity</b>             | Learning and Employability                                                                                                                                                                                                                                                                                |
| <b>Programme</b>                     | B.Tech CSE,ME,EE, CIVIL                                                                                                                                                                                                                                                                                   |
| <b>Date of Commencement</b>          | 5.2.2024                                                                                                                                                                                                                                                                                                  |
| <b>Date of Completion</b>            | 13.5.2024                                                                                                                                                                                                                                                                                                 |
| <b>Place of activity</b>             | B Block B221                                                                                                                                                                                                                                                                                              |
| <b>No of participants Enrolled</b>   | 25                                                                                                                                                                                                                                                                                                        |
| <b>No of participants completed</b>  | 22                                                                                                                                                                                                                                                                                                        |
| <b>Course Coordinator and Expert</b> | HARDEEP SINGH                                                                                                                                                                                                                                                                                             |
| <b>Summary of activity</b>           | The value added course for the Even Semester During the Academic Year 2023-24 was Successfully Organized .The Course On “LEARNING AND EMPLOYABILITY” was covered .It Was aimed at various course students to understand it .A total of 25 students registered for the course and 22 completed the Course. |
|                                      |                                                                                                                                                                                                                                                                                                           |

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# IET BHADDAL

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TECHNICAL  
CAMPUS  
ROPAR



## Learning & Employability

value

added

course

Adaptability

Confidence

Attitude

Presentation

Employability  
Skills

Accountability

Stress  
Management

Motivation

Commencement

from:- 5/2/2024

Teamwork

Time  
Management

Coordinator:-

Hardeep  
Singh

Department of Civil Engineering

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# IET BHADDAL

## TECHNICAL CAMPUS ROPAR

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IET/DEPT- Cwy/087

Date: 5/2/2024

PRINCIPAL  
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ROPAR

Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2023-24-.The details of value added Course is as follow

| S.no | Name of Value Added Course | Class           | Contact Hrs | Date of Commencement | Expert        |
|------|----------------------------|-----------------|-------------|----------------------|---------------|
| 1    | Learning and Employability | CSE,ME,EE,CIVIL | 30          | 05.02.2024           | Hardeep singh |
|      |                            |                 |             |                      |               |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

  
Thanks and Regards  
Course co-ordinator

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email: info@ietbhaddal.edu.in | Website: www.ietbhaddal.edu.in

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LOT/VAC/195

DATE 5/2/2024

## NOTICE

It is for the information of all students of - That *Civil* department is conducting value added course entitled - Learning and Employability from -5/2/2024. The Course is scheduled for ---45 hrs duration.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

  
Head of Department

Cc : principal ( For Kind information please)

Head Of all Departments ( For Information)

IQAC

ALL the notice boards

| S.no | Name              | Duration | 5/2 | 12/2 | 19/2 | 26/2 | 4/3 | 11/3 | 18/3 | 25/3 | 1/4 | 8/4 | 15/4 | 22/4 | 29/4 | 6/5 | 13/5 | Signature         |
|------|-------------------|----------|-----|------|------|------|-----|------|------|------|-----|-----|------|------|------|-----|------|-------------------|
| 1    | GAGANDEEP         | 1        | 2   | 3    | AB   | AB   | AB  | 4    | 5    | AB   | 6   | 7   | 8    | AB   | 9    | 10  | 11   | Gagan Deep        |
| 2    | GURINDER KAUR     | AB       | AB  | 1    | 2    | 3    | AB  | 4    | 5    | AB   | 6   | AB  | 7    | 8    | 9    | AB  | 10   | Gurinder Kaur     |
| 3    | GURPAL SINGH      | 1        | 2   | 3    | 4    | 5    | 6   | AB   | 4    | 5    | AB  | 7   | 8    | 9    | AB   | 10  | 11   | Gurpreet Singh    |
| 4    | GURPREET KAUR     | 1        | 2   | 3    | 4    | 5    | 6   | AB   | 4    | 5    | AB  | 7   | 8    | 9    | AB   | 10  | 11   | Gurpreet Singh    |
| 5    | LOVEPREET SINGH   | 1        | 2   | 3    | 4    | 5    | 6   | 7    | AB   | AB   | AB  | 8   | 9    | 10   | AB   | 11  | 12   | Lovepreet Singh   |
| 6    | VISHAVJEET SINGH  | 1        | 2   | 3    | 4    | 5    | 6   | 7    | AB   | AB   | 8   | 9   | 10   | AB   | 11   | 12  | 13   | Vishavjeet Singh  |
| 7    | AAMIR MAJEED WANI | 1        | 2   | 3    | 4    | 5    | 6   | 7    | AB   | AB   | 8   | 9   | 10   | AB   | 11   | 12  | 13   | Aamir Majeed Wani |
| 8    | AMAN              | 1        | 2   | 3    | 4    | 5    | 6   | 7    | AB   | AB   | 8   | 9   | 10   | AB   | 11   | 12  | 13   | Aman              |
| 9    | FIZA JAN          | 1        | 2   | 3    | 4    | 5    | 6   | 7    | AB   | AB   | 8   | 9   | 10   | AB   | 11   | 12  | 13   | Fiza Jan          |
| 10   | AMIT VERMA        | 1        | 2   | 3    | 4    | 5    | 6   | 7    | AB   | AB   | 8   | 9   | 10   | AB   | 11   | 12  | 13   | Amit Verma        |
| 11   | BASHAR HOSSEN     | 1        | 2   | 3    | 4    | 5    | 6   | AB   | 7    | AB   | 8   | 9   | 10   | AB   | 11   | 12  | 13   | Bashar Hossen     |
| 12   | FAYSAL MONDAL     | 1        | 2   | 3    | 4    | 5    | 6   | AB   | AB   | AB   | 8   | 9   | 10   | AB   | 11   | 12  | 13   | Faisal Mondal     |
| 13   | KANIKA            | 1        | 2   | 3    | 4    | 5    | 6   | AB   | AB   | AB   | 8   | 9   | 10   | AB   | 11   | 12  | 13   | Kanika            |
| 14   | AVNEET KAUR       | 1        | 2   | 3    | 4    | 5    | 6   | AB   | AB   | AB   | 8   | 9   | 10   | AB   | 11   | 12  | 13   | Avneet Kaur       |
| 15   | CHARANJEET        | 1        | 2   | 3    | 4    | 5    | 6   | AB   | AB   | AB   | 8   | 9   | 10   | AB   | 11   | 12  | 13   | Charanjeet        |
| 16   | DAMANPREET SINGH  | 1        | 2   | 3    | 4    | 5    | 6   | AB   | AB   | AB   | 8   | 9   | 10   | AB   | 11   | 12  | 13   | Damanpreet Singh  |
| 17   | JEETU KUMAR       | 1        | 2   | 3    | 4    | 5    | 6   | AB   | AB   | AB   | 8   | 9   | 10   | AB   | 11   | 12  | 13   | Jeetu Kumar       |
| 18   | NANCY MAHE        | 1        | 2   | 3    | 4    | 5    | 6   | AB   | AB   | AB   | 8   | 9   | 10   | AB   | 11   | 12  | 13   | Nancy Mahe        |
| 19   | SUKHCHAIN SINGH   | 1        | 2   | 3    | 4    | 5    | 6   | AB   | AB   | AB   | 8   | 9   | 10   | AB   | 11   | 12  | 13   | Sukhchain Singh   |
| 20   | SUKHPREET SINGH   | AB       | AB  | 1    | 2    | 3    | AB  | 4    | 5    | AB   | 6   | 7   | 8    | AB   | 9    | 10  | 11   | Sukhpreet Singh   |
| 21   | TOUKIR HOSSAIN    | 1        | 2   | 3    | 4    | 5    | 6   | AB   | 4    | 5    | 6   | AB  | 7    | 8    | 9    | AB  | 10   | Toukir Hossain    |
| 22   | FAYAZ AHMAD LONE  | 1        | 2   | 3    | 4    | 5    | 6   | AB   | AB   | AB   | 8   | 9   | 10   | AB   | 11   | 12  | 13   | Fayaz Ahmad Lone  |
| 23   | PARWINDER SINGH   | 1        | 2   | 3    | 4    | 5    | 6   | 7    | AB   | AB   | 8   | 9   | 10   | AB   | 11   | 12  | 13   | Parwinder Singh   |
| 24   | SANCHAN KUMAR     | 1        | 2   | 3    | 4    | 5    | 6   | AB   | 7    | AB   | 8   | 9   | 10   | AB   | 11   | 12  | 13   | Sanchan Kumar     |
| 25   | ABHISHEK KAUSHAL  | 1        | 2   | 3    | 4    | 5    | 6   | AB   | 7    | AB   | 8   | 9   | 10   | AB   | 11   | 12  | 13   | Abhishek Kaushal  |

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## LEARNING AND EMPLOYABILITY

### SYLLABUS

**After completing this programme, participants will be able to:**

1. Discuss the importance of Employability Skills in meeting the job requirements

Constitutional values - Citizenship Duration: 1 Hour

2. Explain constitutional values, civic rights, duties, citizenship, responsibility towards society etc. that are required to be followed to become a responsible citizen.

3. Show how to practice different environmentally sustainable practices

Becoming a Professional in the 21st Century Duration: 1 Hours

4. Discuss 21st century skills.

5. Display positive attitude, self-motivation, problem solving, time management skills and continuous learning mindset in different situations.

**Basic English Skills Duration: 2 Hours**

6. Use appropriate basic English sentences/phrases while speaking

Communication Skills Duration: 4 Hour

7. Demonstrate how to communicate in a well-mannered way with others.

8. Demonstrate working with others in a team

Diversity & Inclusion Duration: 1 Hour

9. Show how to conduct oneself appropriately with all genders and PwD

10. Discuss the significance of reporting sexual harassment issues in time

**Financial and Legal Literacy Duration: 4 Hours**

11. Discuss the significance of using financial products and services safely and securely.

12. Explain the importance of managing expenses, income, and savings.

13. Explain the significance of approaching the concerned authorities in time for any exploitation as per legal rights and laws

**Essential Digital Skills Duration: 3 Hours**

14. Show how to operate digital devices and use the associated applications and features, safely and securely

15. Discuss the significance of using internet for browsing, accessing social media platforms, safely and securely

Entrepreneurship Duration: 7 Hours

16. Discuss the need for identifying opportunities for potential business, sources for arranging money and

potential legal and financial challenges

**Customer Service Duration: 4 Hours**

17. Differentiate between types of customers

18. Explain the significance of identifying customer needs and addressing them

19. Discuss the significance of maintaining hygiene and dressing appropriately

**Getting ready for apprenticeship & Jobs Duration: 2 Hours**

20. Create a biodata

21. Use various sources to search and apply for jobs
22. Discuss the significance of dressing up neatly and maintaining hygiene for an interview
23. Discuss how to search and register for apprenticeship opport

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2023-24**

| S.NO | ROLL NO | NAME              | BRANCH         | YEAR | VALUE ADDED COURSE         |
|------|---------|-------------------|----------------|------|----------------------------|
| 1    | 2005292 | GAGANDEEP         | B.TECH CSE     | 4TH  | LEARNING AND EMPLOYABILITY |
| 2    | 2005293 | GURINDER KAUR     | B.TECH CSE     | 4TH  | LEARNING AND EMPLOYABILITY |
| 3    | 2005294 | GURPAL SINGH      | B.TECH CSE     | 4TH  | LEARNING AND EMPLOYABILITY |
| 4    | 2005295 | GURPREET KAUR     | B. TECH CSE    | 4TH  | LEARNING AND EMPLOYABILITY |
| 5    | 2005297 | LOVEPREET SINGH   | B.TECH CSE     | 4TH  | LEARNING AND EMPLOYABILITY |
| 6    | 2005304 | VISHAVJEET SINGH  | B.TECH EE      | 4TH  | LEARNING AND EMPLOYABILITY |
| 7    | 2105117 | AAMIR MAJEED WANI | B-TECH EE LEET | 4TH  | LEARNING AND EMPLOYABILITY |
| 8    | 2105118 | AMAN              | B-TECH EE LEET | 4TH  | LEARNING AND EMPLOYABILITY |
| 9    | 2105119 | FIZA JAN          | B-TECH EE LEET | 4TH  | LEARNING AND EMPLOYABILITY |
| 10   | 2105024 | AMIT VERMA        | B-TECH CSE     | 3RD  | LEARNING AND EMPLOYABILITY |
| 11   | 2105025 | BASHAR HOSSEN     | B-TECH CSE     | 3RD  | LEARNING AND EMPLOYABILITY |
| 12   | 2105031 | FAYSAL MONDAL     | B-TECH CSE     | 3RD  | LEARNING AND EMPLOYABILITY |
| 13   | 2105027 | KANIKA            | B-TECH CSE     | 3RD  | LEARNING AND EMPLOYABILITY |
| 14   | 2105035 | AVNEET KAUR       | B-TECH EE      | 3RD  | LEARNING AND EMPLOYABILITY |
| 15   | 2105036 | CHARANJEET        | B-TECH EE      | 3RD  | LEARNING AND EMPLOYABILITY |
| 16   | 2105037 | DAMANPREET SINGH  | B-TECH EE      | 3RD  | LEARNING AND EMPLOYABILITY |
| 17   | 2105020 | JEETU KUMAR       | B-TECH CIVIL   | 3RD  | LEARNING AND EMPLOYABILITY |
| 18   | 2105021 | NANCY MAHE        | B-TECH CIVIL   | 3RD  | LEARNING AND EMPLOYABILITY |
| 19   | 2105022 | SUKHCHAIN         | B-TECH CIVIL   | 3RD  | LEARNING AND               |

|    |         |                  |              |     |                            |
|----|---------|------------------|--------------|-----|----------------------------|
|    |         | SINGH            |              |     | EMPLOYABILITY              |
| 20 | 2105023 | SUKHPREET SINGH  | B-TECH CIVIL | 3RD | LEARNING AND EMPLOYABILITY |
| 21 | 2105107 | TOUKIR HOSSAIN   | B-TECH ME    | 3RD | LEARNING AND EMPLOYABILITY |
| 22 | 2204384 | FAYAZ AHMAD LONE | BTCE         | 2ND | LEARNING AND EMPLOYABILITY |
| 23 | 2204389 | PARWINDER SINGH  | BTCE         | 2ND | LEARNING AND EMPLOYABILITY |
| 24 | 2204390 | SANCHAN KUMAR    | BTCE         | 2ND | LEARNING AND EMPLOYABILITY |
| 25 | 2204393 | ABHISHEK KAUSHAL | BTCSE        | 2ND | LEARNING AND EMPLOYABILITY |

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# IETBHADDAL

TECHNICAL  
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OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

## Academic Year 2023-24

### Activity organized Report

Date: 25.04.2024

|                               |                                                                                                                                                                                                                                                                                                       |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                    |
| Title of Activity             | Emotional Intelligence                                                                                                                                                                                                                                                                                |
| Programme                     | B.Tech CSE                                                                                                                                                                                                                                                                                            |
| Date of Commencement          | 18.1.2024                                                                                                                                                                                                                                                                                             |
| Date of Completion            | 25.4.2024                                                                                                                                                                                                                                                                                             |
| Place of activity             | B Block B106                                                                                                                                                                                                                                                                                          |
| No of participants Enrolled   | 18                                                                                                                                                                                                                                                                                                    |
| No of participants completed  | 16                                                                                                                                                                                                                                                                                                    |
| Course Coordinator and Expert | Jaspreet kaur                                                                                                                                                                                                                                                                                         |
| Summary of activity           | The value added course for the Even Semester During the Academic Year 2023-24 was Successfully Organized .The Course On “EMOTIONAL INTELLIGENCE” was covered .It Was aimed at various course students to understand it .A total of 18 students registered for the course and 16 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                       |

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# Emotional Intelligence

value added course

## What is Emotional Intelligence?

Emotional intelligence or EI/EQ is the ability to "understand and manage your own emotions, and those of the people around you," according to Daniel Goleman an American psychologist renowned as the Godfather of EQ.



80%-90% of the competencies that differentiate top performers are in the domain of emotional intelligence.

- Daniel Goleman

## Why is it Important?

- Leaders who can work with others well can foster individual, team and organizational success.
- When we're in touch with our emotions we're at choice. We are able to take control of our emotions and our actions, rather than letting our emotions control us.

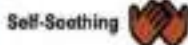


# Emotional Intelligence

## What Makes Up Emotional Intelligence?



Self Reflection



Self-Soothing



Empathy

## Seven Characteristics of Emotionally Intelligent People



1. Change Agents: Aren't afraid of change or taking a risk.
2. Self-Aware: Don't let weaknesses hold them back, they know what they're feeling.
3. Empathetic: Can relate to others.
4. Not Perfectionists: Able to roll with the punches and take things in stride.
5. Balanced: Know how to maintain balance and practice self care.
6. Curious: Innate sense of wonder, they don't judge and are open.
7. Gracious: Glass half-full mentality and they feel good about their lives.



Commencement from: -  
18/1/2024

Coordinator:- Jaspreet Kaur

Department of Computer Science & Engineering

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## TECHNICAL CAMPUS ROPAR

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IET/DEPT CSB / 149

Date: 18/1/2024

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Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2023-24. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class  | Contact Hrs | Date of Commencement | Expert        |
|------|----------------------------|--------|-------------|----------------------|---------------|
| 1    | Emotional Intelligence     | B.Tech | 30/45       | 18.01.2024           | Jaspreet Kaur |
|      |                            |        |             |                      |               |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

Jaspreet Kaur  
Course co-ordinator





# IET BHATTAL

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CAMPUS  
ROPAR

Campus: Bhattal, PO Mianpur, Distt. Rupar, Punjab-140108 (India)  
UGC approved (21 & 12B) | Affiliated to IKG-PTU (Jalandhar)

IET NAC/CSE/087

DATE 18/12/24

## NOTICE

It is for the information of all students of - That CSE department is conducting value added course entitled -**Emotional Intelligence** from -18/1/2024. The Course is scheduled for -45 hrs duration.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

Jaspreet Kaur

Course co-ordinator:

[Signature]  
Head of Department

Cc : principal ( For Kind information please)  
Head Of all Departments ( For Information)  
IQAC  
ALL the notice boards

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Dept of MCA

2023-24

| ATTENDANCE SHEET FOR VALE ADDED COURSE |                   |      |                                       |     |      |      |     |     |      |      |      |                       |      |      |      |                   |
|----------------------------------------|-------------------|------|---------------------------------------|-----|------|------|-----|-----|------|------|------|-----------------------|------|------|------|-------------------|
| DURATION 3HR PER WEEK                  |                   |      | Name Of Course Emotional Intelligence |     |      |      |     |     |      |      |      | Course Duration 45HRS |      |      |      |                   |
| S.no                                   | Name              | 18/1 | 1/2                                   | 8/2 | 15/2 | 22/2 | 1/3 | 8/3 | 15/3 | 22/3 | 29/3 | 5/4                   | 22/4 | 12/9 | 25/4 | SIGNATURE         |
| 1                                      | ABHISHEK KAUSHAL  | 1    | 2                                     | ab  | ab   | 3    | 4   | ab  | 5    | ab   | 6    | 7                     | 8    | ab   | 9    | Abhishek          |
| 2                                      | AKASH DUTTA       | 1    | 2                                     | ab  | ab   | 3    | 4   | ab  | 5    | ab   | 6    | 7                     | 8    | ab   | 9    | Akash             |
| 3                                      | ANCHAL            | 1    | 2                                     | ab  | ab   | 3    | 4   | ab  | 5    | ab   | 6    | 7                     | 8    | ab   | 9    | Anchal            |
| 4                                      | ANJALI THAKUR     | 1    | 2                                     | ab  | ab   | 3    | 4   | ab  | 5    | ab   | 6    | 7                     | 8    | ab   | 9    | Anjali Thakur     |
| 5                                      | ANKIT KUMAR       | 1    | 2                                     | ab  | ab   | 3    | 4   | ab  | 5    | ab   | 6    | 7                     | 8    | ab   | 9    | Ankit Kumar       |
| 6                                      | ARJIT             | 1    | ab                                    | 2   | 3    | ab   | 4   | 5   | 6    | ab   | ab   | 7                     | 8    | 9    | 10   | Arjit             |
| 7                                      | ARPIT CHANDAN     | 1    | ab                                    | 2   | 3    | ab   | 4   | 5   | 6    | ab   | ab   | 7                     | 8    | 9    | 10   | Arpit Chandan     |
| 8                                      | ARSHDEEP SINGH    | 1    | ab                                    | 2   | 3    | ab   | 4   | 5   | 6    | ab   | ab   | 7                     | 8    | 9    | 10   | Arshdeep Singh    |
| 9                                      | BASIT HUSSAIN     | 1    | ab                                    | 2   | 3    | ab   | 4   | 5   | 6    | ab   | ab   | 7                     | 8    | 9    | 10   | Basit Hussain     |
| 10                                     | CHANCHAL          | 1    | ab                                    | 2   | 3    | ab   | 4   | 5   | 6    | ab   | ab   | 7                     | 8    | 9    | 10   | Chanchal          |
| 11                                     | KANISHQ           | 1    | ab                                    | 2   | 3    | ab   | 4   | 5   | 6    | ab   | ab   | 7                     | 8    | 9    | 10   | Kanishq           |
| 12                                     | MANSI             | 1    | ab                                    | 2   | 3    | ab   | 4   | 5   | 6    | ab   | ab   | 7                     | 8    | 9    | 10   | Mansi             |
| 13                                     | MASUD BEEN RASHID | 1    | 2                                     | ab  | ab   | 3    | 4   | ab  | 5    | ab   | 6    | 7                     | 8    | ab   | 9    | Masud Been Rashid |
| 14                                     | NITISH BHARDWAJ   | 1    | 2                                     | ab  | ab   | 3    | 4   | ab  | 5    | ab   | 6    | 7                     | 8    | ab   | 9    | Nitish Bhardwaj   |
| 15                                     | PRABHUOT KAUR     | 1    | 2                                     | ab  | ab   | 3    | 4   | ab  | 5    | ab   | 6    | 7                     | 8    | ab   | 9    | Prabhuot Kaur     |
| 16                                     | YUVRAJ SINGH      | 1    | 2                                     | ab  | ab   | 3    | 4   | ab  | 5    | ab   | 6    | 7                     | 8    | ab   | 9    | Yuvraj Singh      |
| 17                                     | TANVEER SINGH     | 1    | 2                                     | ab  | ab   | 3    | 4   | ab  | 5    | ab   | 6    | 7                     | 8    | ab   | 9    | Tanveer Singh     |
| 18                                     | TARUN KUMAR       | 1    | 2                                     | ab  | ab   | 3    | 4   | ab  | 5    | ab   | 6    | 7                     | 8    | ab   | 9    | Tarun Kumar       |
|                                        |                   | 1    | 2                                     | ab  | ab   | 3    | 4   | ab  | 5    | ab   | 6    | 7                     | 8    | ab   | 9    |                   |

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Jaspreet Kaur





# EMOTIONAL INTELLIGENCE

## SYLLABUS

**Course Objective:** • To Understand varied concepts of Intelligence, critically evaluate IQ as a measure of success in life and • To become aware of social and emotional intelligence as new avenues of achievement and happiness. **Course Outcome:** • To understand the concept of Intelligence, Social and Emotional Intelligence with their IQS. • To understand the theories types and method of measuring Intelligence, Social and Emotional Intelligence • Scientific Research findings on the importance of Social Intelligence (SI) and Emotional Intelligence (EI) and their implications in relationship, workplace settings and stress management. A- Syllabus S No. TOPIC DOMAIN HOURS

1

Introduction to intelligence – Meaning, types and theories: G factor, S factor, Multiple intelligence theory Concept of Intelligence Quotient (IQ), Criticisms of IQ as a measure of intelligence Measurement of Intelligence: Stanford–Binet Intelligence Scale, WAIS

2

Social Intelligence Meaning of Social Intelligence (SI), Concept of Social Quotient (SQ), Scientific Research findings on the importance of SI Development of SI in early childhood and adolescence. Implications of Social Intelligence on adult-life, human relationships and leadership

Emotional Intelligence Meaning of Emotional Intelligence (EI), Theories of EI: Daniel Goleman; Scientific Research findings on the importance of EI Concept of Emotional Quotient (EQ);

Measurement of EI, EQ-MAP, BarOn EQ-I; EQ and IQ Applications of EI in family, school and workplace settings; stress management through EI

Introduction to intelligence

To understand the concept, types and theories of Intelligence with description of factors of intelligence and Intelligence Quotient (IQ) and criticisms of IQ as a measure of intelligence some tests of measuring Intelligence will also studied.

Social Intelligence

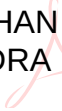
To know the Meaning of Social Intelligence (SI), SI development, Implications and Scientific Research findings on the importance of SI with Social Quotient (SQ)

Emotional Intelligence

To know the Meaning, Theories and measurement and application of Emotional Intelligence (EI) with Scientific Research findings on the importance of EI

Goleman, D. (1995). Emotional Intelligence. Why it can matter more than IQ. Bantam Books 2.  
Goleman, D. (2007). Social Intelligence. The new Science of human relationships. Bantam Books

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2023-24**

| S.NO | ROLL NO | NAME              | BRANCH     | YEAR | VALUE ADDED COURSE     |
|------|---------|-------------------|------------|------|------------------------|
| 1    | 2204394 | ABHISHEK KAUSHAL  | B.Tech CSE | 2ND  | Emotional Intelligence |
| 2    | 2204396 | AKASH DUTTA       | B.Tech CSE | 2ND  | Emotional Intelligence |
| 3    | 2204398 | ANCHAL            | B.Tech CSE | 2ND  | Emotional Intelligence |
| 4    | 2204399 | ANJALI THAKUR     | B.Tech CSE | 2ND  | Emotional Intelligence |
| 5    | 2204400 | ANKIT KUMAR       | B.Tech CSE | 2ND  | Emotional Intelligence |
| 6    | 2204401 | ARJIT             | B.Tech CSE | 2ND  | Emotional Intelligence |
| 7    | 2204402 | ARPIT CHANDAN     | B.Tech CSE | 2ND  | Emotional Intelligence |
| 8    | 2204403 | ARSHDEEP SINGH    | B.Tech CSE | 2ND  | Emotional Intelligence |
| 9    | 2204407 | BASIT HUSSAIN     | B.Tech CSE | 2ND  | Emotional Intelligence |
| 10   | 2204410 | CHANCHAL          | B.Tech CSE | 2ND  | Emotional Intelligence |
| 11   | 2204418 | KANISHQ           | B.Tech CSE | 2ND  | Emotional Intelligence |
| 12   | 2204421 | MANSI             | B.Tech CSE | 2ND  | Emotional Intelligence |
| 13   | 2204422 | MASUD BEEN RASHID | B.Tech CSE | 2ND  | Emotional Intelligence |
| 14   | 2204426 | NITISH BHARDWAJ   | B.Tech CSE | 2ND  | Emotional Intelligence |
| 15   | 2204428 | PRABHJOT KAUR     | B.Tech CSE | 2ND  | Emotional Intelligence |
| 16   | 2204550 | YUVRAJ SINGH      | B.Tech CSE | 2ND  | Emotional Intelligence |
| 17   | 2204441 | TANVEER SINGH     | B.Tech CSE | 2ND  | Emotional Intelligence |
| 18   | 2204443 | TARUN KUMAR       | B.Tech CSE | 2ND  | Emotional Intelligence |

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Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**



## Academic Year 2023-24

### Activity organized Report

Date : 15.04.2024

|                               |                                                                                                                                                                                                                                                                                                             |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                          |
| Title of Activity             | Advance data mining                                                                                                                                                                                                                                                                                         |
| Programme                     | MCA                                                                                                                                                                                                                                                                                                         |
| Date of Commencement          | 8.1.2024                                                                                                                                                                                                                                                                                                    |
| Date of Completion            | 15.4.2024                                                                                                                                                                                                                                                                                                   |
| Place of activity             | B Block B221                                                                                                                                                                                                                                                                                                |
| No of participants Enrolled   | 20                                                                                                                                                                                                                                                                                                          |
| No of participants completed  | 18                                                                                                                                                                                                                                                                                                          |
| Course Coordinator and Expert | Simran kaur                                                                                                                                                                                                                                                                                                 |
| Summary of activity           | The value added course for the Even Semester During the Academic Year 2023-24 was Successfully Organized .The Course On “ADVANCE DATA MINING ” was covered .It Was aimed at various course students to understand data mining.A total of 20 students registered for the course and 18 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                             |

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## Advance Data Mining

value  
added  
course



Commencement  
from:- 8/1/24

Coordinator:- Simran Kaur  
Department of MCA

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IET/DEPT. MCA /093

Date : 8 / 1 / 2024

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Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2023-24-.The details of value added Course is as follow

| S.no | Name of Value Added Course | Class           | Contact Hrs | Date of Commencement | Expert      |
|------|----------------------------|-----------------|-------------|----------------------|-------------|
| 1    | Advance data mining        | MCA, B.Tech CSE | 30/45       | 08.1.2024            | Simran kaur |
|      |                            |                 |             |                      |             |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards  
Course co-ordinator





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LET/VAC/MCA/034

DATE 8/1/2024

## NOTICE

It is for the information of all students of - That **MCA** department is conducting value added course entitled -Advance data mining from -8/1/2024.The Course is scheduled for ---30 hrs duration.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator.The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

Course co-ordinator:

Head of Department

Cc : principal ( For Kind information please)

Head Of all Departments ( For Information)

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Dept of MCA

2023-24

## ATTENDANCE SHEET FOR VALUE ADDED COURSES

| S.no | Name              | 8//1 | 15/1      | 22/1 | 29/1 | 5//2 | 12//2 | 19/2 | 26/2 | 4-Mar | 11-Mar | 18/3/ | 25/3 | 1/4/ | 8/4/ | 15/4/ | SIGNATURE    |
|------|-------------------|------|-----------|------|------|------|-------|------|------|-------|--------|-------|------|------|------|-------|--------------|
| 1    | ANJALI            | 1    | 2         | 3    | ab   | 4    | 5     | AB   | AB   | AB    | 6      | 7     | 8    | AB   | 9    | 10    |              |
| 2    | JASPREET KAUR     | ab   | 1         | 2    | 3    | ab   | 4     | 5    | 6    | 7     | ab     | 8     | ab   | 9    | 10   | 11    |              |
| 3    | JATINDER KAUR     | 1    | 2         | ab   | 3    | 4    | ab    | 5    | 6    | 7     | 8      | ab    | 9    | 10   | ab   | 11    |              |
| 4    | KULWINDER SINGH   |      | NOT REGIS |      |      |      |       |      |      |       |        |       |      |      |      |       |              |
| 5    | MANSI KATOCH      | 1    | 2         | 3    | 4    | 5    | 6     | 7    | AB   | AB    | 8      | 9     | AB   | 10   | AB   | 11    | Mansi Katoch |
| 6    | MUSKAN            | ab   | 1         | 2    | 3    | ab   | 4     | 5    | 6    | 7     | ab     | 8     | ab   | 9    | 10   | 11    | Muskan       |
| 7    | NAVJOT KAUR       | 1    | 2         | ab   | 3    | 4    | ab    | 5    | 6    | 7     | 8      | ab    | 9    | 10   | ab   | 11    | Navjot K     |
| 8    | RAJNI             | 1    | 2         | 3    | ab   | 4    | 5     | AB   | AB   | AB    | 6      | 7     | 8    | AB   | 9    | 10    | Rajni        |
| 9    | RUPINDER KAUR     | 1    | 2         | 3    | ab   | 4    | 5     | AB   | AB   | AB    | 6      | 7     | 8    | AB   | 9    | 10    |              |
| 10   | AJAY PRATAP SINGH | ab   | 1         | 2    | 3    | ab   | 4     | 5    | 6    | 7     | ab     | 8     | ab   | 9    | 10   | 11    |              |
| 11   | BAIVHAB KOUNDAL   | 1    | 2         | ab   | 3    | 4    | ab    | 5    | 6    | 7     | 8      | ab    | 9    | 10   | ab   | 11    |              |
| 12   | GURVINDER SINGH   | 1    | 2         | 3    | 4    | 5    | 6     | 7    | AB   | AB    | 8      | 9     | AB   | 10   | AB   | 11    |              |
| 13   | MANU MINHAS       | ab   | 1         | 2    | 3    | ab   | 4     | 5    | 6    | 7     | ab     | 8     | ab   | 9    | 10   | 11    |              |
| 14   | POOJA RANI        | 1    | 2         | ab   | 3    | 4    | ab    | 5    | 6    | 7     | 8      | ab    | 9    | 10   | ab   | 11    | Pooja Rani   |
| 15   | RAJAT KUMAR       | 1    | 2         | 3    | ab   | 4    | 5     | AB   | AB   | AB    | 6      | 7     | 8    | AB   | 9    | 10    | Rajat Kumar  |
| 16   | ROHIT KUMAR       |      | NOT REGIS |      |      |      |       |      |      |       |        |       |      |      |      |       |              |
| 17   | SWAPNIL           | 1    | 2         | 3    | 4    | 5    | 6     | 7    | AB   | AB    | 8      | 9     | AB   | 10   | AB   | 11    | Swapnil      |
| 18   | TANUJ BHATIA      | ab   | 1         | 2    | 3    | ab   | 4     | 5    | 6    | 7     | ab     | 8     | ab   | 9    | 10   | 11    |              |
| 19   | UTKARSH           | 1    | 2         | ab   | 3    | 4    | ab    | 5    | 6    | 7     | 8      | ab    | 9    | 10   | ab   | 11    | Utkarsh      |
| 20   | VEER KAUR         | 1    | 2         | 3    | ab   | 4    | 5     | AB   | AB   | AB    | 6      | 7     | 8    | AB   | 9    | 10    | Veer         |

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Summary



# Advance data mining

## Course Objectives

1. To understand the principles of Data warehousing and Data Mining.
2. To understand the Architecture of a Data Mining system.
3. To perform classification, association, and prediction of data.

## Course Content

Unit -1 Data Warehousing – Introduction and Design:

Overview and Concepts: Data Warehousing Components, Building a Data Warehouse, Data Warehouse Architecture, Infrastructure and Metadata. Data Design and Data Representation: Principles of Dimensional Modeling, Data Extraction, Transformation and Loading, Data Quality, Online Analytical Processing (OLAP) –OLAP and Multidimensional Data Analysis.

Unit -2 Data Mining – Pre-processing:

Steps in Data Mining process, Data Mining Functionalities, Architecture of a Typical Data Mining Systems, Classification of Data Mining Systems, Knowledge Discovery in Databases (KDD), KDD Process, Data Preprocessing, Data Cleaning, Data Transformation, Data Compression and Dimension Reduction, Principal Component Analysis, Binning Methods.

Unit -3 Data Mining Techniques

Association Rule Mining, Classification and Prediction: Efficient and Scalable Frequent Itemset Mining Methods, Mining Various Kinds of Association Rules, Association Rules, Market Basket Analysis, Apriori Algorithm, Tree Based Algorithms. Classification by Decision Tree Introduction, Bayesian Classification, Rule Based Classification, Classification by Backpropagation, Support Vector Machines, Lazy Learners, Prediction Techniques, Regression Models.

Unit -4 Clustering & Introduction to Web Mining

Data Mining Algorithms: Clustering. Partitioned Algorithms, Hierarchical Algorithms, Density Based Algorithms, Grid Based Algorithms, Web Content Mining, Web Structure Mining, Web Usage Mining, Spatial Mining, Multimedia Data Mining, Text Mining. Course Materials

## Required Text: Text books

1. J. Han and M. Kamber, “Data Mining Tools and Techniques”, Morgan Kaufmann Publishers.
2. M.H. Dunham, “Data Mining Introductory and Advanced Topics”, Pearson Education.
3. Pang-Ning Tan, Michael Steinbach and Vipin Kumar, “Introduction to Data Mining”, Pearson Education.

## Optional Materials: Reference Books

1. Prabhu, “Data warehousing - concepts, Techniques, Products and Applications”, Prentice Hall of India.
2. Alex Berson and Stephen J. Smith, “Data Warehousing, Data Mining & OLAP”, Tata McGraw Hill Edition, Tenth Reprint.
3. Pang-Ning Tan, Michael Steinbach and Vipin Kumar, “Introduction to Data Mining”, Pearson Education.

**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2023-24**

| S.NO | ROLL NO | NAME              | BRANCH | YEAR | VALUE ADDED COURSE  |
|------|---------|-------------------|--------|------|---------------------|
| 1    | 2303680 | ANJALI            | MCA    | 1ST  | Advance data mining |
| 2    | 2303681 | JASPREET KAUR     | MCA    | 1ST  | Advance data mining |
| 3    | 2303682 | JATINDER KAUR     | MCA    | 1ST  | Advance data mining |
| 4    | 2303683 | KULWINDER SINGH   | MCA    | 1ST  | Advance data mining |
| 5    | 2303685 | MANSI KATOCH      | MCA    | 1ST  | Advance data mining |
| 6    | 2303686 | MUSKAN            | MCA    | 1ST  | Advance data mining |
| 7    | 2303687 | NAVJOT KAUR       | MCA    | 1ST  | Advance data mining |
| 8    | 2303688 | RAJNI             | MCA    | 1ST  | Advance data mining |
| 9    | 2303689 | RUPINDER KAUR     | MCA    | 1ST  | Advance data mining |
| 10   | 2204505 | AJAY PRATAP SINGH | MCA    | 2ND  | Advance data mining |
| 11   | 2204506 | BAIVHAB KOUNDAL   | MCA    | 2ND  | Advance data mining |
| 12   | 2204507 | GURVINDER SINGH   | MCA    | 2ND  | Advance data mining |
| 13   | 2204509 | MANU MINHAS       | MCA    | 2ND  | Advance data mining |
| 14   | 2204513 | POOJA RANI        | MCA    | 2ND  | Advance data mining |
| 15   | 2204514 | RAJAT KUMAR       | MCA    | 2ND  | Advance data mining |
| 16   | 2204516 | ROHIT KUMAR       | MCA    | 2ND  | Advance data mining |
| 17   | 2204519 | SWAPNIL           | MCA    | 2ND  | Advance data mining |
| 18   | 2204521 | TANUJ BHATIA      | MCA    | 2ND  | Advance data mining |
| 19   | 2204522 | UTKARSH           | MCA    | 2ND  | Advance data        |



|    |         |           |     |     |                     |
|----|---------|-----------|-----|-----|---------------------|
|    |         |           |     |     | mining              |
| 20 | 2204523 | VEER KAUR | MCA | 2ND | Advance data mining |

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## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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BINDRA, C = IN, S =  
Punjab, O = PERSONAL,  
T = 3953  
Date: 2024.12.26  
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**Principal**

**Date of issue**

### 1.2.1 QnM Number of Add on /Certificate/Value added programs offered during 2022-23

| Name of Certificate/ Value added course offered online courses of MOOCs, SWAYAM, NPTEL etc. here the students of the institution have enrolled and successfully completed | Course Code | Period (from date - to date) | Duration of course | Number of students enrolled in the year | Link                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------|--------------------|-----------------------------------------|----------------------|
| POWER AUTOMATION                                                                                                                                                          | VAIET032    | 25/07/2022 TO 31/10/2022     | 45HRS              | 16                                      | <a href="#">view</a> |
| BASIC INDUST AUTOMATION                                                                                                                                                   | VAIET033    | 25/07/2022 TO 31/10/2022     | 45HRS              | 17                                      | <a href="#">view</a> |
| PLC (SOFTWARE AND HARDWARE)                                                                                                                                               | VAIET034    | 16/08/2022 to 22/11/2022     | 45HRS              | 17                                      | <a href="#">view</a> |
| INTRO TO GOOD LABORATORY PRACTICES                                                                                                                                        | VAIET035    | 18/7/2022 TO 24/10/2022      | 45HRS              | 18                                      | <a href="#">view</a> |
| LAMP(linux, apache,Mysql,PHP)                                                                                                                                             | VAIET036    | 13/7/2022 to 19/10/2022      | 45HRS              | 20                                      | <a href="#">view</a> |
| VISION ROBOTICS                                                                                                                                                           | VAIET037    | 12/08/2022 to 18/11/2022     | 45HRS              | 20                                      | <a href="#">view</a> |
| SIMULATION OF ELECTRIC CIRCUITS                                                                                                                                           | VAIET038    | 4/08/2022 to 10/11/2022      | 45HRS              | 22                                      | <a href="#">view</a> |
| 2D AND 3D MODELLING                                                                                                                                                       | VAIET024    | 25/07/2022 TO 31/10/2022     | 45HRS              | 20                                      | <a href="#">view</a> |
| KNOWLEDGE MANAGEMENT                                                                                                                                                      | VAIET039    | 14/01/2023 TO 29/04/2023     | 45HRS              | 22                                      | <a href="#">view</a> |
| WEBPRENEURSHIP                                                                                                                                                            | VAIET040    | 12/1/2023 to 20/4/2023       | 45HRS              | 20                                      | <a href="#">view</a> |
| ETHICS OF DATA SCIENCES                                                                                                                                                   | VAIET041    | 23/1/2023 TO 01/05/2023      | 45HRS              | 26                                      | <a href="#">view</a> |
| MOBILE APP DEVELOPMENT                                                                                                                                                    | VAIET023    | 10/01/2023 to 18/04/2023     | 45HRS              | 22                                      | <a href="#">view</a> |



# IET BHADDAL

Campus: Bhaddal, PO Mianpur, Distt. Ropar, Punjab-140108 (India)  
UGC approved (2f & 12B) | Affiliated to IKG-PTU (Jalandhar)

TECHNICAL  
CAMPUS  
ROPAR

SHUBLAK  
SHAN  
SINGH  
BINDRA

Digitally signed by  
SHUBLAKSHAN SINGH  
BINDRA  
DN: CN = SHUBLAKSHAN  
SINGH BINDRA, C = IN, S  
= Punjab, O = PERSONAL,  
T = 3953  
Date: 2024.12.27 10:28:08  
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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2022-23**

| S.NO  | PROGRAM NAME | TOTAL NO OF STUDENTS | NO OF STUDENTS ENROLLED WITHOUT REPEAT |
|-------|--------------|----------------------|----------------------------------------|
| 1     | B.TECH CSE   | 63                   | 55                                     |
| 2     | B.TECH ECE   | 0                    | 0                                      |
| 3     | B.TECH EE    | 48                   | 44                                     |
| 4     | B.TECH CIVIL | 32                   | 32                                     |
| 5     | B.TECH ME    | 16                   | 16                                     |
| 6     | B.ARCH       | 12                   | 12                                     |
| 7     | M.TECH CSE   | 4                    | 4                                      |
| 8     | M.TECH EE    | 24                   | 24                                     |
| 9     | MBA          | 20                   | 20                                     |
| 10    | MCA          | 17                   | 17                                     |
| 11    | MARCH        | 0                    | 0                                      |
| TOTAL |              | 236                  | 224                                    |

SHUBLAK  
SHAN  
SINGH  
BINDRA

Digitally signed by  
SHUBLAKSHAN SINGH  
BINDRA  
DN: CN =  
SHUBLAKSHAN SINGH  
BINDRA, C = IN, S =  
Punjab, O = PERSONAL,  
T = 3953  
Date: 2024.12.27  
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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2022-23**

| S.NO | ROLL NO | NAME                 | BRANCH            | YEAR | VALUE ADDED COURSE                |
|------|---------|----------------------|-------------------|------|-----------------------------------|
| 1    | 1906392 | AKSHAY GOYAL         | B.arch            | 4TH  | 2d and 3d modelling in solid Edge |
| 2    | 1906393 | ASHWINI THAKREY      | B.arch            | 4TH  | 2d and 3d modelling in solid Edge |
| 3    | 1906394 | DIKSHA SHARMA        | B.arch            | 4TH  | 2d and 3d modelling in solid Edge |
| 4    | 1906396 | INDERPREET KAUR      | B.arch            | 4TH  | 2d and 3d modelling in solid Edge |
| 5    | 1906397 | JETHRO BANDA         | B.arch            | 4TH  | 2d and 3d modelling in solid Edge |
| 6    | 1935286 | SIMRANJOT SINGH      | B.arch            | 4TH  | 2d and 3d modelling in solid Edge |
| 7    | 2005281 | EMANJAP KAUR         | B.arch            | 3RD  | 2d and 3d modelling in solid Edge |
| 8    | 2005282 | RAMANPREET KAUR      | B.arch            | 3RD  | 2d and 3d modelling in solid Edge |
| 9    | 2204377 | ARUN BISHT           | B.arch            | 1ST  | 2d and 3d modelling in solid Edge |
| 10   | 2204378 | NITESH SHARMA        | B.arch            | 1ST  | 2d and 3d modelling in solid Edge |
| 11   | 2204379 | PRIYANSHU SINGH      | B.arch            | 1ST  | 2d and 3d modelling in solid Edge |
| 12   | 2204380 | SHEFALI              | B.arch            | 1ST  | 2d and 3d modelling in solid Edge |
| 13   | 2105109 | ADNAN HUSSAIN SHEIKH | B-TECH CIVIL LEET | 2ND  | 2d and 3d modelling in solid      |

|    |         |                       |                      |     |                                         |
|----|---------|-----------------------|----------------------|-----|-----------------------------------------|
|    |         |                       |                      |     | Edge                                    |
| 14 | 2105110 | AMIT KUMAR            | B-TECH CIVIL<br>LEET | 2ND | 2d and 3d<br>modelling in solid<br>Edge |
| 15 | 2105111 | HAAFIZ ZAMAL          | B-TECH CIVIL<br>LEET | 2ND | 2d and 3d<br>modelling in solid<br>Edge |
| 16 | 2105112 | HAZOR ALI             | B-TECH CIVIL<br>LEET | 2ND | 2d and 3d<br>modelling in solid<br>Edge |
| 17 | 2105113 | SHAILZA<br>KUMARI     | B-TECH CIVIL<br>LEET | 2ND | 2d and 3d<br>modelling in solid<br>Edge |
| 18 | 2005333 | MD NISHAT<br>RAHMAN   | B-TECH CIVIL<br>LEET | 3RD | 2d and 3d<br>modelling in solid<br>Edge |
| 19 | 2005334 | MOHD. ILYAS           | B-TECH CIVIL<br>LEET | 3RD | 2d and 3d<br>modelling in solid<br>Edge |
| 20 | 2005338 | SABEENA NAZIR         | B-TECH CIVIL<br>LEET | 3RD | 2d and 3d<br>modelling in solid<br>Edge |
| 21 | 2105035 | AVNEET KAUR           | B.Tech EE            | 2ND | BASIC<br>INDUSTRIAL<br>AUTOMATION       |
| 22 | 2105036 | CHARANJEET            | B.Tech EE            | 2ND | BASIC<br>INDUSTRIAL<br>AUTOMATION       |
| 23 | 2105037 | DAMANPREET<br>SINGH   | B.Tech EE            | 2ND | BASIC<br>INDUSTRIAL<br>AUTOMATION       |
| 24 | 2105038 | RUPESH KUMAR<br>YADAV | B.Tech EE            | 2ND | BASIC<br>INDUSTRIAL<br>AUTOMATION       |
| 25 | 2105039 | VARUN SAINI           | B.Tech EE            | 2ND | BASIC<br>INDUSTRIAL<br>AUTOMATION       |
| 26 | 2204551 | AATIF AHMAD<br>RATHER | B.Tech EE            | 2ND | BASIC<br>INDUSTRIAL<br>AUTOMATION       |
| 27 | 2204552 | AMARDEEP<br>SINGH     | B.Tech EE            | 2ND | BASIC<br>INDUSTRIAL<br>AUTOMATION       |
| 28 | 2204553 | AMARJEET<br>SINGH     | B.Tech EE            | 2ND | BASIC<br>INDUSTRIAL<br>AUTOMATION       |
| 29 | 2204554 | HARPREET<br>SINGH     | B.Tech EE            | 2ND | BASIC<br>INDUSTRIAL<br>AUTOMATION       |

|    |         |                     |            |     |                             |
|----|---------|---------------------|------------|-----|-----------------------------|
| 30 | 2204555 | NARINDER KUMAR      | B.Tech EE  | 2ND | BASIC INDUSTRIAL AUTOMATION |
| 31 | 2204556 | NITISH KUMAR        | B.Tech EE  | 2ND | BASIC INDUSTRIAL AUTOMATION |
| 32 | 2204582 | AJAZ AHMAD GANAI    | M.Tech EE  | 1st | BASIC INDUSTRIAL AUTOMATION |
| 33 | 2204584 | ASIA HANIEF         | M.Tech EE  | 1st | BASIC INDUSTRIAL AUTOMATION |
| 34 | 2204584 | BARKAT ALI LONE     | M.Tech EE  | 1st | BASIC INDUSTRIAL AUTOMATION |
| 35 | 2204585 | GURSEWAK SINGH      | M.Tech EE  | 1st | BASIC INDUSTRIAL AUTOMATION |
| 36 | 2204586 | HARPREET SINGH      | M.Tech EE  | 1st | BASIC INDUSTRIAL AUTOMATION |
| 37 | 2204587 | JASHAN SHARMA       | M.Tech EE  | 1st | BASIC INDUSTRIAL AUTOMATION |
| 38 | 2204588 | KARAN KATARIA       | M.Tech EE  | 1st | BASIC INDUSTRIAL AUTOMATION |
| 39 | 2204589 | MANISH KUMAR        | M.Tech EE  | 1st | BASIC INDUSTRIAL AUTOMATION |
| 40 | 2204590 | MIR SHABNUM AZAD    | M.Tech EE  | 1st | BASIC INDUSTRIAL AUTOMATION |
| 41 | 1906410 | KIRAN               | B.TECH CSE | 4TH | ETHICS OF DATA SCIENCE      |
| 42 | 1906411 | KULVEER SINGH       | B.TECH CSE | 4TH | ETHICS OF DATA SCIENCE      |
| 43 | 1906412 | KUSHAL BHALWAL      | B.TECH CSE | 4TH | ETHICS OF DATA SCIENCE      |
| 44 | 1906413 | MANISHA DEVI        | B.TECH CSE | 4TH | ETHICS OF DATA SCIENCE      |
| 45 | 1906414 | PRINCEDEEP SINGH    | B.TECH CSE | 4TH | ETHICS OF DATA SCIENCE      |
| 46 | 1906416 | SHEIKH UMMAR SAROOQ | B.TECH CSE | 4TH | ETHICS OF DATA SCIENCE      |
| 47 | 1906418 | TENZIN TASHI        | B.TECH CSE | 4TH | ETHICS OF DATA SCIENCE      |
| 48 | 1906421 | ZOSANGZUALI         | B.TECH CSE | 4TH | ETHICS OF DATA              |

|    |         | FANAI               |              |     | SCIENCE                    |
|----|---------|---------------------|--------------|-----|----------------------------|
| 49 | 2005339 | NATESH KUMAR        | B.TECH CSE   | 4TH | ETHICS OF DATA SCIENCE     |
| 50 | 2005340 | ROHAN GILL          | B.TECH CSE   | 4TH | ETHICS OF DATA SCIENCE     |
| 51 | 2005341 | YASH CHAUHAN        | B.TECH CSE   | 4TH | ETHICS OF DATA SCIENCE     |
| 52 | 1906405 | DIVYAJOT KAUR       | B.TECH CSE   | 4TH | ETHICS OF DATA SCIENCE     |
| 53 | 2204505 | AJAY PRATAP SINGH   | MCA          | 1ST | ETHICS OF DATA SCIENCE     |
| 54 | 2204506 | BAIVHAB KOUNDAL     | MCA          | 1ST | ETHICS OF DATA SCIENCE     |
| 55 | 2204507 | GURVINDER SINGH     | MCA          | 1ST | ETHICS OF DATA SCIENCE     |
| 56 | 2204509 | MANU MINHAS         | MCA          | 1ST | ETHICS OF DATA SCIENCE     |
| 57 | 2204511 | NIKHIL RANA         | MCA          | 1ST | ETHICS OF DATA SCIENCE     |
| 58 | 2204513 | POOJA RANI          | MCA          | 1ST | ETHICS OF DATA SCIENCE     |
| 59 | 2204523 | VEER KAUR           | MCA          | 1ST | ETHICS OF DATA SCIENCE     |
| 60 | 2204573 | ABDUL MAJEED AKHOON | M.TECH       | 1ST | ETHICS OF DATA SCIENCE     |
| 61 | 2204575 | AKASHDEEP SINGH     | M.TECH       | 1ST | ETHICS OF DATA SCIENCE     |
| 62 | 2204576 | DEEPAK BAWA         | M.TECH       | 1ST | ETHICS OF DATA SCIENCE     |
| 63 | 2204577 | DEEPIKA             | M.TECH       | 1ST | ETHICS OF DATA SCIENCE     |
| 64 | 1906406 | ISAIAH MORDECAI     | B.Tech CSE   | 4TH | Intro to Good Lab Practice |
| 65 | 1906407 | JAGDEEP KAUR        | B.Tech CSE   | 4TH | Intro to Good Lab Practice |
| 66 | 1906408 | JASPREET KAUR       | B.Tech CSE   | 4TH | Intro to Good Lab Practice |
| 67 | 1906409 | KAJAL KHANORIA      | B.Tech CSE   | 4TH | Intro to Good Lab Practice |
| 68 | 1906411 | KULVEER SINGH       | B.Tech CSE   | 4TH | Intro to Good Lab Practice |
| 69 | 1906412 | KUSHAL BHALWAL      | B.Tech CSE   | 4TH | Intro to Good Lab Practice |
| 70 | 1906400 | HARPREET SAINI      | B.Tech CIVIL | 4TH | Intro to Good Lab Practice |
| 71 | 1906401 | NABIL MAMJI         | B.Tech CIVIL | 4TH | Intro to Good Lab Practice |
| 72 | 1906402 | RITIK KUMAR         | B.Tech CIVIL | 4TH | Intro to Good Lab Practice |



|    |         |                   |              |     | Practice                   |
|----|---------|-------------------|--------------|-----|----------------------------|
| 73 | 1906422 | ESHWAR            | B.Tech EE    | 4TH | Intro to Good Lab Practice |
| 74 | 1906423 | GURPREET SINGH    | B.Tech EE    | 4TH | Intro to Good Lab Practice |
| 75 | 2005343 | RAHUL             | B.Tech EE    | 4TH | Intro to Good Lab Practice |
| 76 | 1906437 | CHAKSHU PURI      | B.Tech ME    | 4TH | Intro to Good Lab Practice |
| 77 | 1906438 | GANESH KUMAR      | B.Tech ME    | 4TH | Intro to Good Lab Practice |
| 78 | 1906439 | HARMANPREET SINGH | B.Tech ME    | 4TH | Intro to Good Lab Practice |
| 79 | 1906441 | NIKHIL BANGA      | B.Tech ME    | 4TH | Intro to Good Lab Practice |
| 80 | 1934518 | ROHIT THAKUR      | B.Tech ME    | 4TH | Intro to Good Lab Practice |
| 81 | 1934517 | SIKAS BATTIA      | B.Tech ME    | 4TH | Intro to Good Lab Practice |
| 82 | 1906447 | WAEEL NOMAN       | B.Tech ME    | 4TH | Intro to Good Lab Practice |
| 83 | 2204556 | NITISH KUMAR      | B.Tech EE    | 2ND | KNOWLEDGE MANAGEMENT       |
| 84 | 2204557 | RANDEEP SINGH     | B.Tech EE    | 2ND | KNOWLEDGE MANAGEMENT       |
| 85 | 2204558 | RITIK KUMAR       | B.Tech EE    | 2ND | KNOWLEDGE MANAGEMENT       |
| 86 | 2204559 | SAHIL MUZAFFAR    | B.Tech EE    | 2ND | KNOWLEDGE MANAGEMENT       |
| 87 | 2204560 | SHABIR AHMAD SHAH | B.Tech EE    | 2ND | KNOWLEDGE MANAGEMENT       |
| 88 | 2204561 | SHOWKAT JAVAID    | B.Tech EE    | 2ND | KNOWLEDGE MANAGEMENT       |
| 89 | 2204562 | SOURAV SHARMA     | B.Tech EE    | 2ND | KNOWLEDGE MANAGEMENT       |
| 90 | 2204546 | HARDEEP SINGH     | B.Tech CSE   | 2ND | KNOWLEDGE MANAGEMENT       |
| 91 | 2204549 | SUNAINA           | B.Tech CSE   | 2ND | KNOWLEDGE MANAGEMENT       |
| 92 | 2204550 | YUVRAJ SINGH      | B.Tech CSE   | 2ND | KNOWLEDGE MANAGEMENT       |
| 93 | 2204549 | SAKIB AHMAD BHAT  | B.Tech CIVIL | 2ND | KNOWLEDGE MANAGEMENT       |
| 94 | 2204540 | SANTOSH VYAS      | B.Tech CIVIL | 2ND | KNOWLEDGE MANAGEMENT       |
| 95 | 2204541 | SATPAL            | B.Tech CIVIL | 2ND | KNOWLEDGE MANAGEMENT       |
| 96 | 2204544 | SAYED             | B.Tech CIVIL | 2ND | KNOWLEDGE                  |

|     |         |                       |              |     |                           |
|-----|---------|-----------------------|--------------|-----|---------------------------|
|     |         | MAQSOOD<br>HUSSAIN    |              |     | MANAGEMENT                |
| 97  | 2204542 | SHYAM ASGAR           | B.Tech CIVIL | 2ND | KNOWLEDGE<br>MANAGEMENT   |
| 98  | 2204543 | SUBREENA<br>AKHTER    | B.Tech CIVIL | 2ND | KNOWLEDGE<br>MANAGEMENT   |
| 99  | 2105107 | TOUKIR<br>HOSSAIN     | B.Tech ME    | 3RD | KNOWLEDGE<br>MANAGEMENT   |
| 100 | 2105110 | AMIT KUMAR            | B.Tech CIVIL | 3RD | KNOWLEDGE<br>MANAGEMENT   |
| 101 | 2105111 | HAAFIZ ZAMAL          | B.Tech CIVIL | 3RD | KNOWLEDGE<br>MANAGEMENT   |
| 102 | 2105112 | HAZoor ALI            | B.Tech CIVIL | 3RD | KNOWLEDGE<br>MANAGEMENT   |
| 103 | 2105113 | SHAILZA<br>KUMARI     | B.Tech CIVIL | 3RD | KNOWLEDGE<br>MANAGEMENT   |
| 104 | 2005294 | GURPAL SINGH          | B.Tech CSE   | 3RD | LAMP                      |
| 105 | 2005295 | GURPREET KAUR         | B.Tech CSE   | 3RD | LAMP                      |
| 106 | 2005297 | LOVEPREET<br>SINGH    | B.Tech CSE   | 3RD | LAMP                      |
| 107 | 2005298 | POOJA                 | B.Tech CSE   | 3RD | LAMP                      |
| 108 | 2005299 | RITIKA THAKUR         | B.Tech CSE   | 3RD | LAMP                      |
| 109 | 2005300 | ROSHAN<br>KUMAR       | B.Tech CSE   | 2ND | LAMP                      |
| 110 | 2105088 | ABHISHEK              | MCA          | 2ND | LAMP                      |
| 111 | 2105089 | AMANDEEP<br>KAUR      | MCA          | 2ND | LAMP                      |
| 112 | 2105090 | ANMOLPREET<br>KAUR    | MCA          | 2ND | LAMP                      |
| 113 | 2105091 | AQIB NASEER           | MCA          | 2ND | LAMP                      |
| 114 | 2105092 | HARPREET KAUR         | MCA          | 2ND | LAMP                      |
| 115 | 2105093 | HARSH DHIMAN          | MCA          | 2ND | LAMP                      |
| 116 | 2105094 | KAMALDEEP<br>KAUR     | MCA          | 2ND | LAMP                      |
| 117 | 2105095 | MANDEEP KAUR          | MCA          | 2ND | LAMP                      |
| 118 | 2105096 | MANDEEP<br>SINGH      | MCA          | 2ND | LAMP                      |
| 119 | 2105097 | MOHAMMAD<br>ASIF LONE | MCA          | 2ND | LAMP                      |
| 120 | 2105027 | KANIKA                | B.Tech CSE   | 2ND | LAMP                      |
| 121 | 2105028 | KRIKA BANSAL          | B.Tech CSE   | 2ND | LAMP                      |
| 122 | 2105029 | LALIT KUMAR           | B.Tech CSE   | 2ND | LAMP                      |
| 123 | 2105030 | LOVPREET KAUR         | B.Tech CSE   | 2ND | LAMP                      |
| 124 | 2204392 | ABHI CHAUHAN          | B.Tech CSE   | 1ST | MOBILE APP<br>DEVELOPMENT |
| 125 | 2204393 | ABHISHEK              | B.Tech CSE   | 1ST | MOBILE APP<br>DEVELOPMENT |
| 126 | 2204394 | ABHISHEK              | B.Tech CSE   | 1ST | MOBILE APP                |

|     |         |                    |            |     |                            |
|-----|---------|--------------------|------------|-----|----------------------------|
|     |         | KAUSHAL            |            |     | DEVELOPMENT                |
| 127 | 2204395 | ABU RAHIAN         | B.Tech CSE | 1ST | MOBILE APP DEVELOPMENT     |
| 128 | 2204396 | AKASH DUTTA        | B.Tech CSE | 1ST | MOBILE APP DEVELOPMENT     |
| 129 | 2204397 | AMAN RAJ           | B.Tech CSE | 1ST | MOBILE APP DEVELOPMENT     |
| 130 | 2204398 | ANCHAL             | B.Tech CSE | 1ST | MOBILE APP DEVELOPMENT     |
| 131 | 2204399 | ANJALI THAKUR      | B.Tech CSE | 1ST | MOBILE APP DEVELOPMENT     |
| 132 | 2204400 | ANKIT KUMAR        | B.Tech CSE | 1ST | MOBILE APP DEVELOPMENT     |
| 133 | 2204401 | ARJIT              | B.Tech CSE | 1ST | MOBILE APP DEVELOPMENT     |
| 134 | 2204402 | ARPIT CHANDAN      | B.Tech CSE | 1ST | MOBILE APP DEVELOPMENT     |
| 135 | 2204403 | ARSHDEEP SINGH     | B.Tech CSE | 1ST | MOBILE APP DEVELOPMENT     |
| 136 | 2204404 | ARYAN KUMAR        | B.Tech CSE | 1ST | MOBILE APP DEVELOPMENT     |
| 137 | 2204405 | AUM KUMAR BADHAN   | B.Tech CSE | 1ST | MOBILE APP DEVELOPMENT     |
| 138 | 2204406 | BASHARAT HASSAN    | B.Tech CSE | 1ST | MOBILE APP DEVELOPMENT     |
| 139 | 2204407 | BASIT HUSSAIN      | B.Tech CSE | 1ST | MOBILE APP DEVELOPMENT     |
| 140 | 2204408 | BHAVISHYA RAJGOTRA | B.Tech CSE | 1ST | MOBILE APP DEVELOPMENT     |
| 141 | 2204409 | BHEEM KUMAR        | B.Tech CSE | 1ST | MOBILE APP DEVELOPMENT     |
| 142 | 2005288 | AMANDEEP SINGH     | B.Tech CSE | 3RD | PCB SOFTWARE AND HARD WARE |
| 143 | 2005289 | ANIKET KUMAR       | B.Tech CSE | 3RD | PCB SOFTWARE AND HARD WARE |
| 144 | 2005290 | ANSHDEEP BHATHAL   | B.Tech CSE | 3RD | PCB SOFTWARE AND HARD WARE |
| 145 | 2005291 | ARSHDEEP SINGH     | B.Tech CSE | 3RD | PCB SOFTWARE AND HARD WARE |
| 146 | 2005292 | GAGANDEEP          | B.Tech CSE | 3RD | PCB SOFTWARE AND HARD WARE |
| 147 | 2005293 | GURINDER KAUR      | B.Tech CSE | 3RD | PCB SOFTWARE AND HARD WARE |
| 148 | 2005294 | GURPAL SINGH       | B.Tech CSE | 3RD | PCB SOFTWARE AND HARD WARE |
| 149 | 2005295 | GURPREET KAUR      | B.Tech CSE | 3RD | PCB SOFTWARE AND HARD WARE |
| 150 | 2005297 | LOVEPREET          | B.Tech CSE | 3RD | PCB SOFTWARE               |



# IET BHADDAL

Campus: Bhaddal, PO Mianpur, Distt. Ropar, Punjab-140108 (India)  
UGC approved (2f & 12B) | Affiliated to IKG-PTU (Jalandhar)

## TECHNICAL CAMPUS ROPAR

|     |         |                            |            |     |                               |
|-----|---------|----------------------------|------------|-----|-------------------------------|
|     |         | SINGH                      |            |     | AND HARD WARE                 |
| 151 | 2005298 | POOJA                      | B.Tech CSE | 3RD | PCB SOFTWARE<br>AND HARD WARE |
| 152 | 2005299 | RITIKA THAKUR              | B.Tech CSE | 3RD | PCB SOFTWARE<br>AND HARD WARE |
| 153 | 2005300 | ROSHAN<br>KUMAR            | B.Tech CSE | 3RD | PCB SOFTWARE<br>AND HARD WARE |
| 154 | 2005301 | SONU                       | B.Tech CSE | 3RD | PCB SOFTWARE<br>AND HARD WARE |
| 155 | 2105115 | ADARSH KUMAR<br>SINGH      | B.Tech CSE | 3RD | PCB SOFTWARE<br>AND HARD WARE |
| 156 | 2105127 | RHYTHMPREET<br>SINGH       | B.Tech EE  | 3RD | PCB SOFTWARE<br>AND HARD WARE |
| 157 | 2105128 | SATPAL                     | B.Tech EE  | 3RD | PCB SOFTWARE<br>AND HARD WARE |
| 158 | 2105129 | SATWINDER<br>SINGH         | B.Tech EE  | 3RD | PCB SOFTWARE<br>AND HARD WARE |
| 159 | 2105130 | SAURAV                     | B.Tech EE  | 3RD | PCB SOFTWARE<br>AND HARD WARE |
| 160 | 2105131 | SHAHNAWAZ<br>GUL           | B.Tech EE  | 3RD | PCB SOFTWARE<br>AND HARD WARE |
| 161 | 2105132 | SUKHJOT SINGH              | B.Tech EE  | 3RD | PCB SOFTWARE<br>AND HARD WARE |
| 162 | 2105133 | SYED ASIM<br>KHURSHID      | B.Tech EE  | 3RD | PCB SOFTWARE<br>AND HARD WARE |
| 163 | 2105134 | YASHKARAN<br>SINGH         | B.Tech EE  | 3RD | PCB SOFTWARE<br>AND HARD WARE |
| 164 | 2105146 | AIJAZ AHMAD                | M.tech EE  | 2nd | power<br>automation           |
| 165 | 2105147 | AKSHIT JASWAL              | M.tech EE  | 2nd | power<br>automation           |
| 166 | 2105148 | ARSHDEEP<br>SINGH          | M.tech EE  | 2nd | power<br>automation           |
| 167 | 2105149 | BASHI BASHIR               | M.tech EE  | 2nd | power<br>automation           |
| 168 | 2105150 | FAYAZ AHMAD<br>DAR         | M.tech EE  | 2nd | power<br>automation           |
| 169 | 2105151 | MISBAH RIYAZ               | M.tech EE  | 2nd | power<br>automation           |
| 170 | 2105152 | MUZAFFAR<br>MUSHTAQ        | M.tech EE  | 2nd | power<br>automation           |
| 171 | 2105153 | MUZAMIL<br>AHMAD<br>PADDAR | M.tech EE  | 2nd | power<br>automation           |
| 172 | 2105154 | MUZAMIL<br>MUSHTAQ         | M.tech EE  | 2nd | power<br>automation           |
| 173 | 2105155 | RAJAT KUMAR                | M.tech EE  | 2nd | power<br>automation           |



|     |         |                       |           |     |                                 |
|-----|---------|-----------------------|-----------|-----|---------------------------------|
| 174 | 2105156 | REYAZ AHMAD BHAT      | M.tech EE | 2nd | power automation                |
| 175 | 2105157 | SAIMA SHAFI CHOUDHARY | M.tech EE | 2nd | power automation                |
| 176 | 2105158 | SAQIB SHAFI MIR       | M.tech EE | 2nd | power automation                |
| 177 | 2105159 | SATINDER YADAV        | M.tech EE | 2nd | power automation                |
| 178 | 2105160 | SHAKIR HUSSAIN MIR    | M.tech EE | 2nd | power automation                |
| 179 | 2105121 | GURWINDER SINGH       | B.TECH EE | 3rd | SIMULATION OF ELECTRIC CIRCUITS |
| 180 | 2105122 | JASPREET SINGH        | B.TECH EE | 3rd | SIMULATION OF ELECTRIC CIRCUITS |
| 181 | 2105123 | MANOJ KUMAR           | B.TECH EE | 3rd | SIMULATION OF ELECTRIC CIRCUITS |
| 182 | 2105124 | MANPREET SINGH        | B.TECH EE | 3rd | SIMULATION OF ELECTRIC CIRCUITS |
| 183 | 2204564 | SUMAN BARAI           | B.TECH EE | 3rd | SIMULATION OF ELECTRIC CIRCUITS |
| 184 | 2204565 | SURAJ RAKESH          | B.TECH EE | 3rd | SIMULATION OF ELECTRIC CIRCUITS |
| 185 | 2204561 | SHOWKAT JAVAID        | B.TECH EE | 3rd | SIMULATION OF ELECTRIC CIRCUITS |
| 186 | 2204563 | SUHAIL MUSHTAQ        | B.TECH EE | 3rd | SIMULATION OF ELECTRIC CIRCUITS |
| 187 | 2204448 | JAGDEEP SINGH         | B.TECH EE | 3rd | SIMULATION OF ELECTRIC CIRCUITS |
| 188 | 2204449 | MUNISSH RANA          | B.TECH EE | 3rd | SIMULATION OF ELECTRIC CIRCUITS |
| 189 | 2204450 | PAWAN KUMAR           | B.TECH EE | 3rd | SIMULATION OF ELECTRIC CIRCUITS |
| 190 | 2204451 | SAHIL ANSARI          | B.TECH EE | 3rd | SIMULATION OF ELECTRIC CIRCUITS |
| 191 | 2204452 | TARANVIR SINGH        | B.TECH EE | 3rd | SIMULATION OF ELECTRIC CIRCUITS |



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## TECHNICAL CAMPUS ROPAR

|     |         |                   |                   |     | CIRCUITS                        |
|-----|---------|-------------------|-------------------|-----|---------------------------------|
| 192 | 2105129 | SATWINDER SINGH   | B.TECH EE         | 3rd | SIMULATION OF ELECTRIC CIRCUITS |
| 193 | 2105117 | AAMIR MAJEED WANI | B-TECH EE LEET    | 3rd | SIMULATION OF ELECTRIC CIRCUITS |
| 194 | 2105118 | AMAN              | B-TECH EE LEET    | 3rd | SIMULATION OF ELECTRIC CIRCUITS |
| 195 | 2105119 | FIZA JAN          | B-TECH EE LEET    | 3rd | SIMULATION OF ELECTRIC CIRCUITS |
| 196 | 2105131 | SHAHNAWAZ GUL     | B-TECH EE LEET    | 3rd | SIMULATION OF ELECTRIC CIRCUITS |
| 197 | 2105132 | SUKHJOT SINGH     | B-TECH EE LEET    | 3rd | SIMULATION OF ELECTRIC CIRCUITS |
| 198 | 2204567 | ABHISHEK KUMAR    | B.Tech ME         | 2nd | Vision Robotics                 |
| 199 | 2204568 | HARISH KUMAR      | B.Tech ME         | 2nd | Vision Robotics                 |
| 200 | 2204569 | LITON HOSSAIN     | B.Tech ME         | 2nd | Vision Robotics                 |
| 201 | 2204570 | SACHIN KUMAR      | B.Tech ME         | 2nd | Vision Robotics                 |
| 202 | 2204571 | SHAHZAB ALLAH     | B.Tech ME         | 2nd | Vision Robotics                 |
| 203 | 2204572 | VISHAL KUMAR      | B.Tech ME         | 2nd | Vision Robotics                 |
| 204 | 2105108 | ABRAR NAZIR SHAH  | B.tech CIVIL leet | 3rd | Vision Robotics                 |
| 205 | 2105109 | ADNAN HUSSAIN     | B.tech CIVIL leet | 3rd | Vision Robotics                 |
| 206 | 2105110 | AMIT KUMAR        | B.tech CIVIL leet | 3rd | Vision Robotics                 |
| 207 | 2105111 | HAAFIZ JAMAL      | B.tech CIVIL leet | 3rd | Vision Robotics                 |
| 208 | 2105112 | HUZOOR ALI        | B.tech CIVIL leet | 3rd | Vision Robotics                 |
| 209 | 2105113 | SHAILZA KUMARI    | B.tech CIVIL leet | 3rd | Vision Robotics                 |
| 210 | 2105114 | WASEEM HASSAN     | B.tech CIVIL leet | 3rd | Vision Robotics                 |
| 211 | 2005333 | NISHANT RAHMAN    | B.tech CIVIL leet | 4th | Vision Robotics                 |
| 212 | 2005334 | MOHAMMAD ILAYAS   | B.tech CIVIL leet | 4th | Vision Robotics                 |
| 213 | 2005338 | SABEENA NAZIR     | B.tech CIVIL leet | 4th | Vision Robotics                 |
| 214 | 2028561 | MOHD IQBAL SHEIKH | B.tech CIVIL leet | 4th | Vision Robotics                 |
| 215 | 1906442 | PRERNA SHARMA     | B.Tech ME         | 4th | Vision Robotics                 |
| 216 | 1906444 | SHEKHAR           | B.Tech ME         | 4th | Vision Robotics                 |

Phone no: +91-1881-244777, 244606, Fax: 01881-244749

Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)

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|     |         |                  |     |     |                |
|-----|---------|------------------|-----|-----|----------------|
| 217 | 2204458 | AMIT KUMAR       | MBA | 2nd | webprenuership |
| 218 | 2204460 | ANNU             | MBA | 2nd | webprenuership |
| 219 | 2204461 | ARSHVIR KAUR     | MBA | 2nd | webprenuership |
| 220 | 2204462 | BAZILA MUSHTAQ   | MBA | 2nd | webprenuership |
| 221 | 2204464 | DEEPALI          | MBA | 2nd | webprenuership |
| 222 | 2204467 | FARHAN MAQBOOL   | MBA | 2nd | webprenuership |
| 223 | 2204468 | GAGANDEEP        | MBA | 2nd | webprenuership |
| 224 | 2204469 | HARMANDEEP SINGH | MBA | 2nd | webprenuership |
| 225 | 2204470 | HARMANPREET KAUR | MBA | 2nd | webprenuership |
| 226 | 2204471 | HARSHDEEP KAUR   | MBA | 2nd | webprenuership |
| 227 | 2204472 | IMTIYAZ AKRAM    | MBA | 2nd | webprenuership |
| 228 | 2105056 | JASHANPREET KAUR | MBA | 1st | webprenuership |
| 229 | 2105057 | KAMALJEET KAUR   | MBA | 1st | webprenuership |
| 230 | 2105058 | KAMALPREET KAUR  | MBA | 1st | webprenuership |
| 231 | 2105059 | KAMALPREET SINGH | MBA | 1st | webprenuership |
| 232 | 2105061 | KRISHMA KUMARI   | MBA | 1st | webprenuership |
| 233 | 2105062 | LOVELEEN KAUR    | MBA | 1st | webprenuership |
| 234 | 2105063 | MAGANPREET SINGH | MBA | 1st | webprenuership |
| 235 | 2105064 | MANDEEP SINGH    | MBA | 1st | webprenuership |
| 236 | 2105065 | MANJU KUMARI     | MBA | 1st | webprenuership |
|     |         |                  |     |     |                |
|     |         |                  |     |     |                |

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**Academic Year 2022-23**

**Activity organized Report**

**Date : 18.04.2023**

|                                      |                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name of activity</b>              | Value Added Course                                                                                                                                                                                                                                                                                                        |
| <b>Title of Activity</b>             | MOBILE APP DEVELOPMENT                                                                                                                                                                                                                                                                                                    |
| <b>Programme</b>                     | B.tech CSE,MCA,M.tech CSE                                                                                                                                                                                                                                                                                                 |
| <b>Date of Commencement</b>          | 10.1.2023                                                                                                                                                                                                                                                                                                                 |
| <b>Date of Completion</b>            | 18.4.2023                                                                                                                                                                                                                                                                                                                 |
| <b>Place of activity</b>             | C block                                                                                                                                                                                                                                                                                                                   |
| <b>No of participants Enrolled</b>   | 18                                                                                                                                                                                                                                                                                                                        |
| <b>No of participants completed</b>  | 16                                                                                                                                                                                                                                                                                                                        |
| <b>Course Coordinator and Expert</b> | Mr Lovkesh                                                                                                                                                                                                                                                                                                                |
| <b>Summary of activity</b>           | The value added course for the Even Semester During the Academic Year 2022-23 was Successfully Organized .The Course On “MOBILE APP DEVELOPMENT” was covered .It Was aimed at various course students to understand how to make mobile apps.A total of 18 students registered for the course and 16 completed the Course. |
|                                      |                                                                                                                                                                                                                                                                                                                           |

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IET/DEPT MCA /114

Date: 10/1/2023

PRINCIPAL  
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**Permission For Conducting value added course and allocate faculty member for same**

It is to bring to your kind notice that following value added course is finalized For academic Year 2022-23. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class                          | Contact Hrs | Date of Commencement | Expert     |
|------|----------------------------|--------------------------------|-------------|----------------------|------------|
| 1    | MOBILE APP DEVELOPMENT     | MCA, M.Tech cse,<br>B.Tech CSE | 30/45       | 10/1/2023            | MR LOVKESH |
|      |                            |                                |             |                      |            |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

Course co-ordinator

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)





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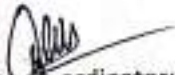
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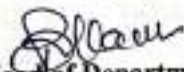
DATE 10/1/2023

## NOTICE

It is for the information of all students of - That MCA department is conducting value added course entitled - MOBILE APP DEVELOPMENT from -10/01/2023 .The Course is scheduled for ---45 hrs duration.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course Co-ordinator:

  
Head of Department

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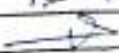
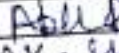
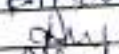
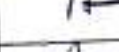
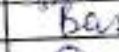
Cc : Principal ( For Kind information please)  
Head Of all Departments ( For Information)  
IQAC  
ALL the notice boards





Dept of MCA

2022-23

| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                    |                |          |                                       |          |          |          |          |          |          |          |          |          |                       |          |           |                                                                                       |
|------------------------------------------|--------------------|----------------|----------|---------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------------------|----------|-----------|---------------------------------------------------------------------------------------|
| DURATION 3HR                             |                    |                |          | Name Of Course MOBILE APP DEVELOPMENT |          |          |          |          |          |          |          |          |          | Course Duration 45HRS |          |           |                                                                                       |
| S.no                                     | Name               | 01TH JAN       | 07TH JAN | 14TH JAN                              | 21ST JAN | 28TH JAN | 04TH FEB | 11TH FEB | 18TH FEB | 25TH FEB | 03TH MAR | 10TH MAR | 17TH MAR | 24TH MAR              | 31TH MAR | SIGNATURE |                                                                                       |
| 1                                        | ABHI CHAUHAN       | 1              | 2        | 3                                     | AB       | AB       | 4        | 5        | 6        | 7        | AB       | 8        | AB       | 9                     | 10       | 11        |    |
| 2                                        | ABHISHEK           | 1              | 2        | AB                                    | 3        | 4        | AB       | AB       | 5        | 6        | 7        | AB       | 8        | 9                     | AB       | 10        |    |
| 3                                        | KAUSHAL            | AB             | 1        | 2                                     | 3        | 4        | AB       | 5        | AB       | AB       | 6        | 7        | 8        | AB                    | 9        | 10        |    |
| 4                                        | ABU RAHMAN         | 1              | 2        | 3                                     | 4        | 5        | 6        | AB       | 7        | AB       | 8        | 9        | AB       | 10                    | 11       | AB        |    |
| 5                                        | AKASH DUTTA        | 1              | 2        | 3                                     | AB       | AB       | 4        | 5        | 6        | 7        | AB       | 8        | 9        | AB                    | 10       | 11        |    |
| 6                                        | AMAN RAJ           | 1              | 2        | AB                                    | 3        | 4        | AB       | AB       | 5        | 6        | 7        | AB       | 8        | 9                     | AB       | 10        |    |
| 7                                        | ANCHAL             | AB             | 1        | 2                                     | 3        | 4        | AB       | 5        | AB       | AB       | 6        | 7        | 8        | AB                    | 9        | 10        |    |
| 8                                        | ANJALI THAKUR      | 1              | 2        | 3                                     | 4        | 5        | 6        | AB       | 7        | AB       | 8        | 9        | AB       | 10                    | 11       | AB        |    |
| 9                                        | ANKIT KUMAR        | 1              | 2        | AB                                    | 3        | 4        | AB       | AB       | 5        | 6        | 7        | AB       | 8        | 9                     | AB       | 10        |    |
| 10                                       | ARJIT              | NOT REGISTERED |          |                                       |          |          |          |          |          |          |          |          |          |                       |          |           |    |
| 11                                       | ARPIT              | 1              | 2        | 3                                     | AB       | AB       | 4        | 5        | 6        | 7        | AB       | 8        | AB       | 9                     | 10       | 11        |    |
| 12                                       | CHANDAN            | 1              | 2        | 3                                     | AB       | AB       | 4        | 5        | 6        | 7        | AB       | 8        | 9        | AB                    | 10       | 11        |    |
| 13                                       | ARSHDEEP SINGH     | 1              | 2        | AB                                    | 3        | 4        | AB       | AB       | 5        | 6        | 7        | AB       | 8        | 9                     | AB       | 10        |    |
| 14                                       | ARYAN KUMAR        | AB             | 1        | 2                                     | 3        | 4        | AB       | 5        | AB       | AB       | 6        | 7        | 8        | 9                     | AB       | 10        |    |
| 15                                       | AUM KUMAR          | NOT REGISTERED |          |                                       |          |          |          |          |          |          |          |          |          |                       |          |           |    |
| 16                                       | BADHAN             | 1              | 2        | 3                                     | AB       | AB       | 4        | 5        | 6        | 7        | AB       | 8        | AB       | 9                     | 10       | 11        |    |
| 17                                       | BASHARAT HASSAN    | 1              | 2        | 3                                     | AB       | AB       | 4        | 5        | 6        | 7        | AB       | 8        | 9        | AB                    | 10       | 11        |   |
| 18                                       | BASIT HUSSAIN      | 1              | 2        | AB                                    | 3        | 4        | AB       | AB       | 5        | 6        | 7        | AB       | 8        | 9                     | AB       | 10        |  |
| 19                                       | BHAVISHYA RAJGOTRA | AB             | 1        | 2                                     | 3        | 4        | AB       | 5        | AB       | AB       | 6        | 7        | 8        | 9                     | AB       | 10        |  |
| 20                                       | BHEEM KUMAR        | 1              | 2        | 3                                     | AB       | AB       | 4        | 5        | 6        | 7        | AB       | 8        | 9        | AB                    | 10       | 11        |  |

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## **MOBILE APPLICATION DEVELOPMENT**

### **COURSE OVERVIEW:**

This course is concerned with the development of applications on mobile and wireless computing platforms. Android will be used as a basis for teaching programming techniques and design patterns related to the development of standalone applications and mobile portals to enterprise and m-commerce systems. Emphasis is placed on the processes, tools and frameworks required to develop applications for current and emerging mobile computing devices. Students will work at all stages of the software development life-cycle from inception through to implementation and testing. In doing so, students will be required to consider the impact of user characteristics, device capabilities, networking infrastructure and deployment environment, in order to develop software capable of meeting the requirements of stakeholders.

### **COURSE OBJECTIVES:**

1. To facilitate students to understand android SDK
2. To help students to gain a basic understanding of Android application development
3. To inculcate working knowledge of Android Studio development tool

### **COURSE OUTCOMES:**

At the end of this course, students will be able to:

1. Identify various concepts of mobile programming that make it unique from programming for other platforms,
2. Critique mobile applications on their design pros and cons,
3. Utilize rapid prototyping techniques to design and develop sophisticated mobile interfaces,
4. Program mobile applications for the Android operating system that use basic and advanced phone features, and
5. Deploy applications to the Android marketplace for distribution.

### **SYLLABUS**

#### **UNIT - I**

Introduction to Android: The Android Platform, Android SDK, Eclipse Installation, Android Installation, Building your First Android application, Understanding Anatomy of Android Application, AndroidManifest file.

#### **UNIT - II**

Android Application Design Essentials: Anatomy of an Android applications, Android terminologies, Application Context, Activities, Services, Intents, Receiving and Broadcasting Intents, AndroidManifest File and its common settings, Using Intent Filter, Permissions.

#### **UNIT - III**

Android User Interface Design Essentials: User Interface Screen elements, Designing User Interfaces with Layouts, Drawing and Working with Animation.

#### UNIT - IV

Testing Android applications, Publishing Android application, Using Android preferences, Managing Application resources in a hierarchy, working with different types of resources.

#### UNIT - V

Using Common Android APIs: Using Android Data and Storage APIs, Managing data using Sqlite, Sharing Data between Applications with Content Providers, Using Android Networking APIs, Using Android Web APIs, Using Android Telephony APIs, Deploying Android Application to the World.

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2022-23**

| S.NO | ROLL NO | NAME               | BRANCH     | YEAR | VALUE ADDED COURSE     |
|------|---------|--------------------|------------|------|------------------------|
| 1    | 2204392 | ABHI CHAUHAN       | B.Tech CSE | 1ST  | MOBILE APP DEVELOPMENT |
| 2    | 2204393 | ABHISHEK           | B.Tech CSE | 1ST  | MOBILE APP DEVELOPMENT |
| 3    | 2204394 | ABHISHEK KAUSHAL   | B.Tech CSE | 1ST  | MOBILE APP DEVELOPMENT |
| 4    | 2204395 | ABU RAHIAN         | B.Tech CSE | 1ST  | MOBILE APP DEVELOPMENT |
| 5    | 2204396 | AKASH DUTTA        | B.Tech CSE | 1ST  | MOBILE APP DEVELOPMENT |
| 6    | 2204397 | AMAN RAJ           | B.Tech CSE | 1ST  | MOBILE APP DEVELOPMENT |
| 7    | 2204398 | ANCHAL             | B.Tech CSE | 1ST  | MOBILE APP DEVELOPMENT |
| 8    | 2204399 | ANJALI THAKUR      | B.Tech CSE | 1ST  | MOBILE APP DEVELOPMENT |
| 9    | 2204400 | ANKIT KUMAR        | B.Tech CSE | 1ST  | MOBILE APP DEVELOPMENT |
| 10   | 2204401 | ARJIT              | B.Tech CSE | 1ST  | MOBILE APP DEVELOPMENT |
| 11   | 2204402 | ARPIT CHANDAN      | B.Tech CSE | 1ST  | MOBILE APP DEVELOPMENT |
| 12   | 2204403 | ARSHDEEP SINGH     | B.Tech CSE | 1ST  | MOBILE APP DEVELOPMENT |
| 13   | 2204404 | ARYAN KUMAR        | B.Tech CSE | 1ST  | MOBILE APP DEVELOPMENT |
| 14   | 2204405 | AUM KUMAR BADHAN   | B.Tech CSE | 1ST  | MOBILE APP DEVELOPMENT |
| 15   | 2204406 | BASHARAT HASSAN    | B.Tech CSE | 1ST  | MOBILE APP DEVELOPMENT |
| 16   | 2204407 | BASIT HUSSAIN      | B.Tech CSE | 1ST  | MOBILE APP DEVELOPMENT |
| 17   | 2204408 | BHAVISHYA RAJGOTRA | B.Tech CSE | 1ST  | MOBILE APP DEVELOPMENT |
| 18   | 2204409 | BHEEM KUMAR        | B.Tech CSE | 1ST  | MOBILE APP DEVELOPMENT |

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Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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SINGH  
BINDRA

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**Principal**

**Date of issue**



## Academic Year 2022-23

### Activity organized Report

Date : 31.10.2022

|                               |                                                                                                                                                                                                                                                                                                                        |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                     |
| Title of Activity             | 2d and 3d modelling in solid Edge                                                                                                                                                                                                                                                                                      |
| Programme                     | Engg and Arch                                                                                                                                                                                                                                                                                                          |
| Date of Commencement          | 25.07.2022                                                                                                                                                                                                                                                                                                             |
| Date of Completion            | 31.10.2022                                                                                                                                                                                                                                                                                                             |
| Place of activity             | A004                                                                                                                                                                                                                                                                                                                   |
| No of participants Enrolled   | 20                                                                                                                                                                                                                                                                                                                     |
| No of participants completed  | 17                                                                                                                                                                                                                                                                                                                     |
| Course Coordinator and Expert | GURPREET SINGH                                                                                                                                                                                                                                                                                                         |
| Summary of activity           | The value added course for the odd Semester During the Academic Year 2022-23 was Successfully Organized .The Course On “2D AND 3D MODELING IN SOLID EDGE” was covered .It Was aimed at various course students to understand 3d drawing .A total of 20 students registered for the course and 17 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                        |

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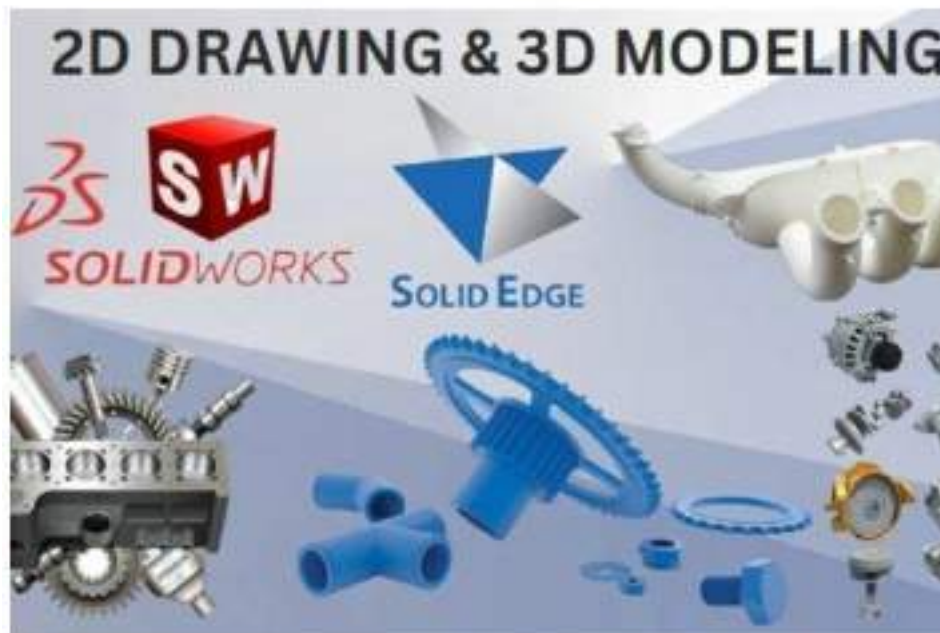


# IET BHADDAL

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TECHNICAL  
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ROPAR

## 2d & 3d Modelling



Value  
Added  
Course

Commencement From:- 25/7/2022

Coordinator:- Gurpreet Singh  
Department of Architecture

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IET/DEPT BA304 153

Date: 25/7/2022

PRINCIPAL  
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ROPAR

Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2023-24-.The details of value added Course is as follow

| S.no | Name of Value Added Course        | Class           | Contact Hrs | Date of Commencement | Expert         |
|------|-----------------------------------|-----------------|-------------|----------------------|----------------|
| 1    | 2d and 3d modelling in solid Edge | ME,Civil,B.Arch | 30/45       | 25.7.2022            | GURPREET SINGH |
|      |                                   |                 |             |                      |                |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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*Thanks and Regards*  
Course co-ordinator





# IET BHADDAL

TECHNICAL  
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ROPAR

Address: Bhaddal, District Jalandhar, Punjab, India-140106 (India)  
AICTE Registration No. 214/2015, Affiliated to JECRC Group (Jalandhar)

IET/VAC/BA-24/139

DATE 25/7/2022

## NOTICE

It is for the information of all students of - That BA-24 department is conducting value added course entitled -2d and 3d modelling in solid Edge.from -25/7/2022.The Course is scheduled for -30 hrsduration.The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator.The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

  
Head of Department

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Head Of all Departments ( For Information)  
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College of H.S. ch 2022-23

ATTENDANCE SHEET FOR VALUE ADDED COURSES

| DURATION 3HRS/WEEK |                   | Name Of Course 2d and 3d modelling in solid Edge |     |     |      |      |      |     |      |      |      |      |       | Course Duration 45 HRS |       |       |           |
|--------------------|-------------------|--------------------------------------------------|-----|-----|------|------|------|-----|------|------|------|------|-------|------------------------|-------|-------|-----------|
| S.no               | Name              | 25/7                                             | 1/8 | 8/8 | 16/8 | 22/8 | 29/8 | 5/9 | 12/9 | 19/9 | 26/9 | 3/10 | 10/10 | 17/10                  | 24/10 | 31/10 | signature |
| 1                  | AKSHAY GOYAL      | 1                                                | 2   | 3   | 4    | ab   | ab   | 5   | 6    | 7    | ab   | 8    | ab    | 9                      | 10    | 11    | Akshay    |
| 2                  | ASHWINI THAKREY   | 1                                                | 2   | 3   | ab   | 4    | 5    | ab  | 6    | ab   | 7    | 8    | 9     | ab                     | 10    | 11    | Ashwini   |
| 3                  | DIKSHA SHARMA     | 1                                                | ab  | ab  | 2    | 3    | 4    | 5   | ab   | 6    | 7    | ab   | 8     | 9                      | ab    | 10    | Diksha    |
| 4                  | INDERPREET KAUR   | ab                                               | 1   | 2   | 3    | 4    | 5    | 6   | 7    | ab   | 8    | 9    | 10    | 11                     | 12    | ab    | Indra K   |
| 5                  | JETHRO BANDA      | 1                                                | ab  | ab  | 2    | 3    | 4    | 5   | ab   | 6    | 7    | ab   | 8     | 9                      | ab    | 10    | Jethro    |
| 6                  | SIMRANJOT SINGH   | ab                                               | 1   | 2   | 3    | 4    | 5    | 6   | 7    | ab   | 8    | 9    | 10    | 11                     | 12    | ab    | Simran    |
| 7                  | EMANJAP KAUR      | not registered                                   |     |     |      |      |      |     |      |      |      |      |       |                        |       |       |           |
| 8                  | RAMANPREET KAUR   | 1                                                | 2   | 3   | 4    | ab   | ab   | 5   | 6    | 7    | ab   | 8    | ab    | 9                      | 10    | 11    | Raman     |
| 9                  | ARUN BISHT        | 1                                                | 2   | 3   | ab   | 4    | 5    | ab  | 6    | ab   | 7    | 8    | 9     | ab                     | 10    | 11    | Arun      |
| 10                 | NITESH SHARMA     | 1                                                | ab  | ab  | 2    | 3    | 4    | 5   | ab   | 6    | 7    | ab   | 8     | 9                      | ab    | 10    | Nitesh    |
| 11                 | PRIYANSHU SINGH   | ab                                               | 1   | 2   | 3    | 4    | 5    | 6   | 7    | ab   | 8    | 9    | 10    | 11                     | 12    | ab    | Priyanshu |
| 12                 | SHEFALI           | not registered                                   |     |     |      |      |      |     |      |      |      |      |       |                        |       |       |           |
| 13                 | ADNAN HUSSAIN SHE | 1                                                | 2   | 3   | 4    | ab   | ab   | 5   | 6    | 7    | ab   | 8    | ab    | 9                      | 10    | 11    | Adnan     |
| 14                 | AMIT KUMAR        | 1                                                | 2   | 3   | ab   | 4    | 5    | ab  | 6    | ab   | 7    | 8    | 9     | ab                     | 10    | 11    | Amit      |
| 15                 | HAAFIZ ZAMAL      | 1                                                | ab  | ab  | 2    | 3    | 4    | 5   | ab   | 6    | 7    | ab   | 8     | 9                      | ab    | 10    | Haafiz    |
| 16                 | HAZOR ALI         | ab                                               | 1   | 2   | 3    | 4    | 5    | 6   | 7    | ab   | 8    | 9    | 10    | 11                     | 12    | ab    | Hazor     |
| 17                 | SHAILZA KUMARI    | 1                                                | ab  | ab  | 2    | 3    | 4    | 5   | ab   | 6    | 7    | ab   | 8     | 9                      | ab    | 10    | Shailza   |
| 18                 | MD NISHAT RAHMAN  | ab                                               | 1   | 2   | 3    | 4    | 5    | 6   | 7    | ab   | 8    | 9    | 10    | 11                     | 12    | ab    | MD Nishat |
| 19                 | MOHD. ILYAS       | not registered                                   |     |     |      |      |      |     |      |      |      |      |       |                        |       |       |           |
| 20                 | SABEENA NAZIR     | 1                                                | 2   | 3   | 4    | ab   | ab   | 5   | 6    | 7    | ab   | 8    | ab    | 9                      | 10    | 11    | Sabeena   |

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## 2D AND 3D MODELLING IN SOLID EDGE

### SYLLABUS

#### **Module 1 Computer-based Animation&Getting Started with Max**

Definition of Computer-based Animation,Basic Types of Animation: Real Time ,Non-real-time, Definition of Modelling,Creation of 3D objects.Exploring the Max Interface, Controlling & Configuring the Viewports, Customizing the Max Interface & Setting Preferences,Working with Files, Importing & Exporting, Selecting Objects &Setting Object Properties, Duplicating Objects, Creating & Editing Standard Primitive & extended Primitives objects,Transforming objects, Pivoting, aligning etc.

8

#### **Module 2 2D Splines& Shapes& compound object**

Understanding 2D Splines& shape, Extrude & Bevel 2Dobject to 3D, Understanding Loft & terrain, Modeling simple 4

objects with splines, Understanding morph, scatter, conform,connect compound objects, blobmesh, Boolean ,Proboolean&procutter compound object

Group -B

#### **Module3 3DModellingModeling with Polygons, using the graphite, working with**

XRefs, Building simple scenes, Building complex scenes withXRefs, using assets tracking, deforming surfaces & using themesh modifiers, modeling with patches & NURBS

8

#### **Module 4 Keyframe Animation Creating Keyframes, Auto Keyframes, Move & Scale**

Keyframe on the timeline, Animating with constraints &simple controllers, animation Modifiers & complex controllers, function curves in the track view, motion mixeretc.

8

Group - C

#### **Module 5 Simulation & Effects**

Bind to Space Warp object, Gravity, wind, displace forceobject, deflectors, FFD space warp, wave, ripple, bomb,

Creating particle system through parray, understandingparticle flow user interface, how to particle flow works, hair

& fur modifier, cloth & garment maker modifiers etc.

8

#### **Module 6 Lighting& Camera**

Configuring & Aiming Cameras, camera motion blur, cameradepth of field, camera tracking, using basic lights &lightingTechniques, working with advanced lighting, Light Tracing, Radiosity, video post, mental ray lighting etc.

8

Group - D

#### **Module 7 Texturing with MaxUsing the material editor & the material explorer,**

creating& applying standard materials, adding materialdetails with maps, creating compound materials &

material modifiers, unwrapping UVs & mapping texture,using atmospheric & render effects etc.  
8Module 8 Rendering with V-RayV-ray light setup, V-ray rendering settings, HDRI  
Illumination, Fine-tuning shadows, Final render setting etc

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2022-23**

| S.NO | ROLL NO | NAME                 | BRANCH            | YEAR | VALUE ADDED COURSE                |
|------|---------|----------------------|-------------------|------|-----------------------------------|
| 1    | 1906392 | AKSHAY GOYAL         | B.arch            | 4TH  | 2d and 3d modelling in solid Edge |
| 2    | 1906393 | ASHWINI THAKREY      | B.arch            | 4TH  | 2d and 3d modelling in solid Edge |
| 3    | 1906394 | DIKSHA SHARMA        | B.arch            | 4TH  | 2d and 3d modelling in solid Edge |
| 4    | 1906396 | INDERPREET KAUR      | B.arch            | 4TH  | 2d and 3d modelling in solid Edge |
| 5    | 1906397 | JETHRO BANDA         | B.arch            | 4TH  | 2d and 3d modelling in solid Edge |
| 6    | 1935286 | SIMRANJOT SINGH      | B.arch            | 4TH  | 2d and 3d modelling in solid Edge |
| 7    | 2005281 | EMANJAP KAUR         | B.arch            | 3RD  | 2d and 3d modelling in solid Edge |
| 8    | 2005282 | RAMANPREET KAUR      | B.arch            | 3RD  | 2d and 3d modelling in solid Edge |
| 9    | 2204377 | ARUN BISHT           | B.arch            | 1ST  | 2d and 3d modelling in solid Edge |
| 10   | 2204378 | NITESH SHARMA        | B.arch            | 1ST  | 2d and 3d modelling in solid Edge |
| 11   | 2204379 | PRIYANSHU SINGH      | B.arch            | 1ST  | 2d and 3d modelling in solid Edge |
| 12   | 2204380 | SHEFALI              | B.arch            | 1ST  | 2d and 3d modelling in solid Edge |
| 13   | 2105109 | ADNAN HUSSAIN SHEIKH | B-TECH CIVIL LEET | 2ND  | 2d and 3d modelling in solid Edge |
| 14   | 2105110 | AMIT KUMAR           | B-TECH CIVIL LEET | 2ND  | 2d and 3d modelling in solid      |



|    |         |                     |                      |     |                                         |
|----|---------|---------------------|----------------------|-----|-----------------------------------------|
|    |         |                     |                      |     | Edge                                    |
| 15 | 2105111 | HAAFIZ ZAMAL        | B-TECH CIVIL<br>LEET | 2ND | 2d and 3d<br>modelling in solid<br>Edge |
| 16 | 2105112 | HAZoor ALI          | B-TECH CIVIL<br>LEET | 2ND | 2d and 3d<br>modelling in solid<br>Edge |
| 17 | 2105113 | SHAILZA<br>KUMARI   | B-TECH CIVIL<br>LEET | 2ND | 2d and 3d<br>modelling in solid<br>Edge |
| 18 | 2005333 | MD NISHAT<br>RAHMAN | B-TECH CIVIL<br>LEET | 3RD | 2d and 3d<br>modelling in solid<br>Edge |
| 19 | 2005334 | MOHD. ILYAS         | B-TECH CIVIL<br>LEET | 3RD | 2d and 3d<br>modelling in solid<br>Edge |
| 20 | 2005338 | SABEENA<br>NAZIR    | B-TECH CIVIL<br>LEET | 3RD | 2d and 3d<br>modelling in solid<br>Edge |

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# IETBHADDAL

TECHNICAL  
CAMPUS  
OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

**Academic Year 2022-23**

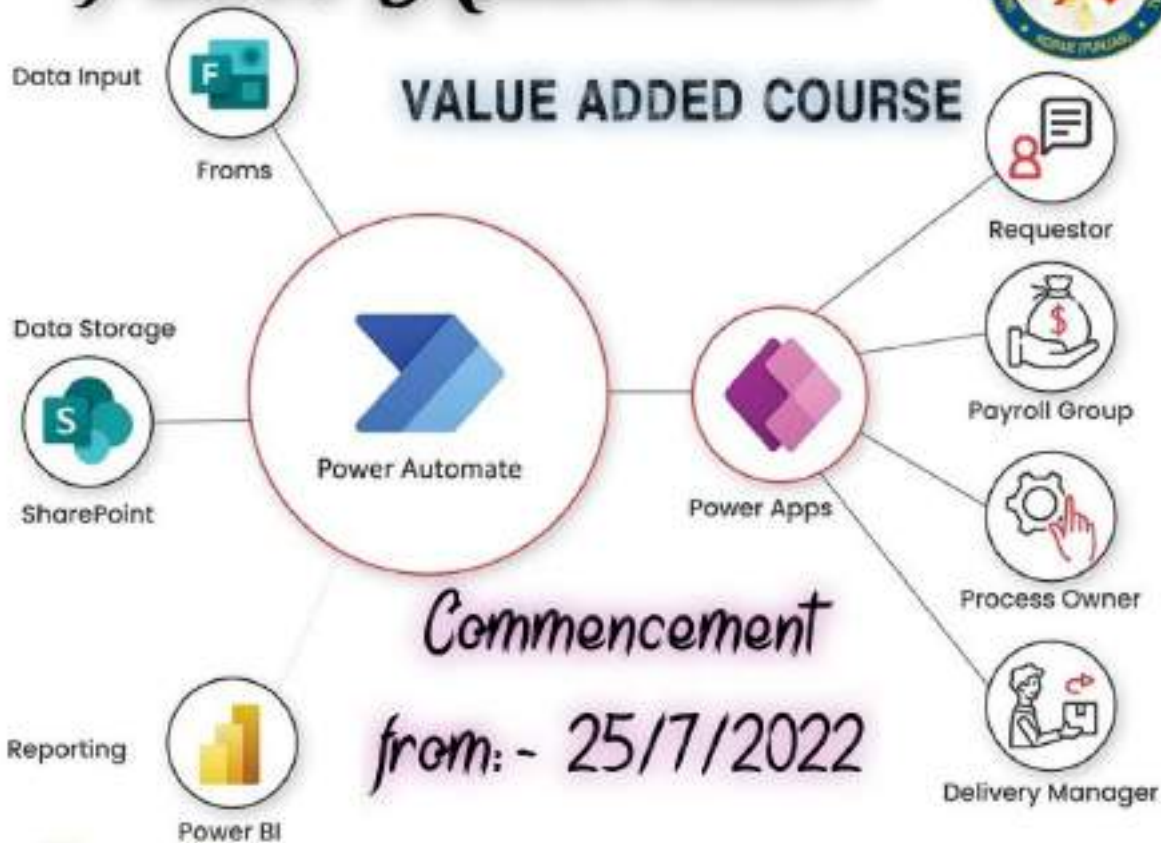
**Activity organized Report**

**Date : 31.10.2022**

|                                      |                                                                                                                                                                                                                                                                                               |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name of activity</b>              | Value Added Course                                                                                                                                                                                                                                                                            |
| <b>Title of Activity</b>             | Power Automation                                                                                                                                                                                                                                                                              |
| <b>Programme</b>                     | B.Tech EE,M.tech EE                                                                                                                                                                                                                                                                           |
| <b>Date of Commencement</b>          | 25.7.2022                                                                                                                                                                                                                                                                                     |
| <b>Date of Completion</b>            | 31.10.2022                                                                                                                                                                                                                                                                                    |
| <b>Place of activity</b>             | D110                                                                                                                                                                                                                                                                                          |
| <b>No of participants Enrolled</b>   | 15                                                                                                                                                                                                                                                                                            |
| <b>No of participants completed</b>  | 13                                                                                                                                                                                                                                                                                            |
| <b>Course Coordinator and Expert</b> | KAMALJEET SINGH                                                                                                                                                                                                                                                                               |
| <b>Summary of activity</b>           | The value added course for the odd Semester During the Academic Year 2022-23 was Successfully Organized .The Course On “Power Automation” was covered .It was aimed at various course students to write report .A total of 15 students registered for the course and 13 completed the Course. |
|                                      |                                                                                                                                                                                                                                                                                               |

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## Power Automation



*Commencement*

*from: - 25/7/2022*

**Coordinator:-  
Kamaljit Singh**

**Department of  
Electrical Engineering**

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BINDRA

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TECHNICAL  
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IET/DEPT-<sup>EE</sup>/144

Date: 25/7/2022

PRINCIPAL  
IET BHADDAL  
ROPAR

**Permission For Conducting value added course and allocate faculty member for same**

It is to bring to your kind notice that following value added course is finalized For academic Year 2022-23. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class                   | Contact Hrs | Date of Commencement | Expert          |
|------|----------------------------|-------------------------|-------------|----------------------|-----------------|
| 1    | Power Automation           | B.Tech EE,<br>M.tech EE | 30/45       | 25.7.2022            | Kamaljeet singh |
|      |                            |                         |             |                      |                 |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

Course co-ordinator

Phone no: +91-1881-2447777, 244606, Fax: 01881-244749  
Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)





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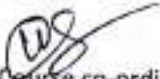
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DATE 25/7/2022

## NOTICE

It is for the information of all students of - That **EE** department is conducting value added course entitled - Power Automation from 25/07/2022. The Course is scheduled for ---45 hrs duration.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

  
Head of Department

SHUBLAKSHA  
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Cc: Principal ( For Kind information please)  
Head Of all Departments ( For Information)  
IQAC  
ALL the notice boards

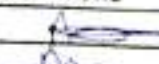
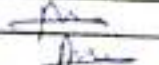
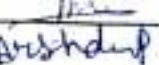
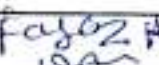
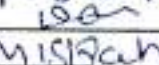
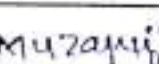
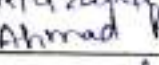
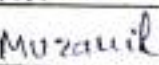
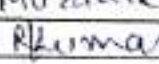
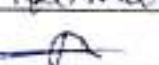
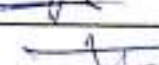
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Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)





Dept of EE

2022-23

| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                       |                |                                 |       |        |        |        |       |        |        |        |       |        |                 |    |    |                                                                                     |                                                                                     |
|------------------------------------------|-----------------------|----------------|---------------------------------|-------|--------|--------|--------|-------|--------|--------|--------|-------|--------|-----------------|----|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| DURATION 3HR                             |                       |                | Name Of Course Power Automation |       |        |        |        |       |        |        |        |       |        |                 |    |    |                                                                                     |                                                                                     |
| S.no                                     | Name                  | 25/7           | 1-Aug                           | 8-Aug | 15-Aug | 22-Aug | 29-Aug | 5-Sep | 12-Sep | 19-Sep | 26-Sep | 3-Oct | 10-Oct | Course Duration |    |    | SIGNATURE                                                                           |                                                                                     |
|                                          |                       |                |                                 |       |        |        |        |       |        |        |        |       |        |                 |    |    |                                                                                     |                                                                                     |
| 1                                        | ALIYAZ AHMAD          | 1              | 2                               | 3     | 4      | 5      | AB     | 6     | 7      | 8      | AB     | 9     | 10     | 11              | AB | 12 |  |                                                                                     |
| 2                                        | AKSHIT JASWAL         | 1              | 2                               | 3     | AB     | 4      | 5      | AB    | 6      | 7      | 8      | AB    | 9      | 10              | 11 | AB |  |                                                                                     |
| 3                                        | ARSHDEEP SINGH        | AB             | 1                               | 2     | 3      | AB     | 4      | 5     | AB     | 6      | 7      | 8     | AB     | 9               | 10 | 11 | AB                                                                                  |  |
| 4                                        | BASHI BASHIR          | NOT REGISTERED |                                 |       |        |        |        |       |        |        |        |       |        |                 |    |    |                                                                                     |                                                                                     |
| 5                                        | FAYAZ AHMAD DAR       | 1              | 2                               | 3     | AB     | 4      | 5      | AB    | 6      | 7      | 8      | AB    | 9      | 10              | 11 | AB |  |                                                                                     |
| 6                                        | MISBAH RIYAZ          | AB             | 1                               | 2     | 3      | AB     | 4      | 5     | AB     | 6      | 7      | 8     | AB     | 9               | 10 | 11 | AB                                                                                  |  |
| 7                                        | MUZAFFAR MUSHTAQ      | NOT REGISTERED |                                 |       |        |        |        |       |        |        |        |       |        |                 |    |    |                                                                                     |                                                                                     |
| 8                                        | MUZAMIL AHMAD PADDAR  | 1              | 2                               | 3     | 4      | 5      | AB     | 6     | 7      | 8      | AB     | 9     | 10     | 11              | AB | 12 |  |                                                                                     |
| 9                                        | MUZAMIL MUSHTAQ       | 1              | 2                               | 3     | AB     | 4      | 5      | AB    | 6      | 7      | 8      | AB    | 9      | 10              | 11 | AB |  |                                                                                     |
| 10                                       | RAJAT KUMAR           | AB             | 1                               | 2     | 3      | AB     | 4      | 5     | AB     | 6      | 7      | 8     | AB     | 9               | 10 | 11 | AB                                                                                  |  |
| 11                                       | REYAZ AHMAD BHAT      | 1              | 2                               | 3     | 4      | 5      | AB     | 6     | 7      | 8      | AB     | 9     | 10     | 11              | AB | 12 |  |                                                                                     |
| 12                                       | SAIMA SHAFI CHOUDHARY | 1              | 2                               | 3     | AB     | 4      | 5      | AB    | 6      | 7      | 8      | AB    | 9      | 10              | 11 | AB |  |                                                                                     |
| 13                                       | SAQIB SHAFI MIR       | AB             | 1                               | 2     | 3      | AB     | 4      | 5     | AB     | 6      | 7      | 8     | AB     | 9               | 10 | 11 | AB                                                                                  |  |
| 14                                       | SATINDER YADAV        | AB             | 1                               | 2     | 3      | AB     | 4      | 5     | AB     | 6      | 7      | 8     | AB     | 9               | 10 | 11 | AB                                                                                  |  |
| 15                                       | SHAKIR HUSSAIN MIR    | 1              | 2                               | 3     | 4      | 5      | AB     | 6     | 7      | 8      | AB     | 9     | 10     | 11              | AB | 12 |  |                                                                                     |

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## Syllabus

### Value added Course

#### POWER AUTOMATION

##### POWER AUTOMATION

Credits : 4

Economic operation: Economic dispatch problem of thermal units without and with losses— Gradient method-Newton's method –Base point and participation factor method.

Unit Commitment Solution Methods: Introduction to unit commitment, methods of unit commitment: Priority-List Methods, Dynamic- Programming Solution, Forward DP Approach, Lagrange relaxation solution. Hydro-thermal co-ordination: Hydroelectric plant models –short term hydrothermal scheduling problem -gradient approach .Optimal

Power Flow: Solution of OPF, gradient method, Newton's method, linear programming method with only real power variables, linear programming with AC power flow variables, security-constrained optimal power flow.

Power system security: Contingency analysis – linear sensitivity factors – AC power flow methods –contingency selection – concentric relaxation – bounding-security constrained optimal power flow. The control problem: The two-area system, Tie-line Bias control; steady state Instabilities:

Torsional Oscillatory Modes-Damper windings and negative damping, effect of AVR loop: AGC Design using kalman method-state variable form of the dynamic model, Optimum control Index, state Trajectories, the RICCATI equations, preventive and emergency control, computer control.

##### TEXT BOOKS

1. Allen J.Wood and Wollenberg B.F., 'Power Generation Operation and control', John Wiley & Sons, Second Edition,1996.

2. Electric Energy systems Theory - An Introduction' Olle I Elgard, TMH Second Edition

##### REFERENCES

1. Kirchmayer L.K., 'Economic Control of Interconnected Systems', John Wiley & Sons, 1959.

2. Nagrath, I.J. and Kothari D.P., 'Modern Power System Analysis', TMH, New Delhi, 2006.

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2022-23**

| S.NO | ROLL NO | NAME                  | BRANCH    | YEAR | VALUE ADDED COURSE |
|------|---------|-----------------------|-----------|------|--------------------|
| 1    | 2105146 | AIJAZ AHMAD           | M.tech EE | 2nd  | power automation   |
| 2    | 2105147 | AKSHIT JASWAL         | M.tech EE | 2nd  | power automation   |
| 3    | 2105148 | ARSHDEEP SINGH        | M.tech EE | 2nd  | power automation   |
| 4    | 2105149 | BASHI BASHIR          | M.tech EE | 2nd  | power automation   |
| 5    | 2105150 | FAYAZ AHMAD DAR       | M.tech EE | 2nd  | power automation   |
| 6    | 2105151 | MISBAH RIYAZ          | M.tech EE | 2nd  | power automation   |
| 7    | 2105152 | MUZAFFAR MUSHTAQ      | M.tech EE | 2nd  | power automation   |
| 8    | 2105153 | MUZAMIL AHMAD PADDAR  | M.tech EE | 2nd  | power automation   |
| 9    | 2105154 | MUZAMIL MUSHTAQ       | M.tech EE | 2nd  | power automation   |
| 10   | 2105155 | RAJAT KUMAR           | M.tech EE | 2nd  | power automation   |
| 11   | 2105156 | REYAZ AHMAD BHAT      | M.tech EE | 2nd  | power automation   |
| 12   | 2105157 | SAIMA SHAFI CHOUDHARY | M.tech EE | 2nd  | power automation   |
| 13   | 2105158 | SAQIB SHAFI MIR       | M.tech EE | 2nd  | power automation   |
| 14   | 2105159 | SATINDER YADAV        | M.tech EE | 2nd  | power automation   |
| 15   | 2105160 | SHAKIR HUSSAIN MIR    | M.tech EE | 2nd  | power automation   |

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OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

Academic Year 2022-23

Activity organized Report

Date : 31.10.2022

|                               |                                                                                                                                                                                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                |
| Title of Activity             | BASIC INDUSTRIAL AUTOMATION                                                                                                                                                                                                                                                                                       |
| Programme                     | B.Tech EE,M.Tech EE                                                                                                                                                                                                                                                                                               |
| Date of Commencement          | 25.7.2022                                                                                                                                                                                                                                                                                                         |
| Date of Completion            | 31.10.2022                                                                                                                                                                                                                                                                                                        |
| Place of activity             | D002                                                                                                                                                                                                                                                                                                              |
| No of participants Enrolled   | 17                                                                                                                                                                                                                                                                                                                |
| No of participants completed  | 16                                                                                                                                                                                                                                                                                                                |
| Course Coordinator and Expert | BALJIT KAUR                                                                                                                                                                                                                                                                                                       |
| Summary of activity           | The value added course for the odd Semester During the Academic Year 2022-23 was Successfully Organized .The Course On “BASIC INDUSTRIAL AUTOMATION ” was covered .It Was aimed at various course students tounderstand automation .A total of 17 students registered for the course and 16 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                   |

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Date: 25/7/2022

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Permission For Conducting value added course and allocate faculty member for same

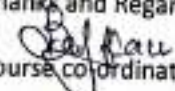
It is to bring to your kind notice that following value added course is finalized For academic Year 2022-23. The details of value added Course is as follow

| S.no | Name of Value Added Course  | Class                   | Contact Hrs | Date of Commencement | Expert      |
|------|-----------------------------|-------------------------|-------------|----------------------|-------------|
| 1    | BASIC INDUSTRIAL AUTOMATION | B.TECH<br>EE, M.Tech EE | 30/45       | 25.7.2022            | BALJIT KAUR |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards  
  
Course coordinator





# IET BHADDAL

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UGC approved (21 & 12B) | Affiliated to IKG-PTU (Jalandhar)

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ROPAR

LET/NAC/EE/088

DATE 25/7/2022

## NOTICE

It is for the information of all students of - That **EE** department is conducting value added course entitled - BASIC INDUSTRIAL AUTOMATION from -25/07/2022. The Course is scheduled for --- 45 hrs duration.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

Course coordinator:

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Head of Department

Cc : Principal ( For Kind information please)

Head Of all Departments ( For Information)

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Dept of BB

2022-23

| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                    |                                            |      |      |       |      |      |      |       |        |        |                       |       |       |        |        |                    |
|------------------------------------------|--------------------|--------------------------------------------|------|------|-------|------|------|------|-------|--------|--------|-----------------------|-------|-------|--------|--------|--------------------|
| Duration 3hrs/week                       |                    | Name Of Course BASIC INDUSTRIAL AUTOMATION |      |      |       |      |      |      |       |        |        | Course Duration 45hrs |       |       |        |        |                    |
| S.no                                     | Name               | 16/8                                       | 23/8 | 30/8 | 6-Sep | 13/9 | 20/9 | 27/9 | 4-Oct | 11-Oct | 18-Oct | 25-Oct                | 1-Nov | 8-Nov | 15-Nov | 22-Nov | Total attendance % |
| 1                                        | AVNEET KAUR        | 1                                          | 2    | 3    | 4     | 5    | AB   | AB   | 6     | 7      | 8      | AB                    | 9     | 10    | AB     | 11     | 100                |
| 2                                        | CHARANJEET         | 1                                          | 2    | 3    | AB    | 4    | 5    | 6    | AB    | 7      | AB     | 8                     | 9     | 10    | 11     | AB     | 100                |
| 3                                        | DAMANPREET SINGH   | AB                                         | 1    | 2    | 3     | 4    | 5    | AB   | 6     | 7      | 8      | AB                    | 9     | 10    | 11     | 12     | 100                |
| 4                                        | RUPESH KUMAR       | 1                                          | 2    | AB   | AB    | 3    | 4    | 5    | 6     | AB     | 7      | 8                     | AB    | 9     | 10     | 11     | 100                |
| 5                                        | VARUN SAINI        | 1                                          | 2    | 3    | 4     | AB   | 5    | 6    | 7     | 8      | AB     | AB                    | AB    | 9     | 10     | 11     | 100                |
| 6                                        | AATIF AHMAD RATHER | 1                                          | 2    | 3    | 4     | 5    | AB   | AB   | 6     | 7      | 8      | AB                    | 9     | 10    | AB     | 11     | 100                |
| 7                                        | AMARDEEP SINGH     | 1                                          | 2    | 3    | AB    | 4    | 5    | 6    | AB    | 7      | AB     | 8                     | 9     | 10    | 11     | AB     | 100                |
| 8                                        | AMARJEET SINGH     | AB                                         | 1    | 2    | 3     | 4    | 5    | AB   | 6     | 7      | 8      | AB                    | 9     | 10    | 11     | 12     | 100                |
| 9                                        | HARPREET SINGH     | 1                                          | 2    | AB   | AB    | 3    | 4    | 5    | 6     | AB     | 7      | 8                     | AB    | 9     | 10     | 11     | 100                |
| 10                                       | NARINDER KUMAR     | 1                                          | 2    | 3    | 4     | AB   | 5    | 6    | 7     | 8      | AB     | AB                    | AB    | 9     | 10     | 11     | 100                |
| 11                                       | NITISH KUMAR       | 1                                          | 2    | AB   | AB    | 3    | 4    | 5    | 6     | AB     | 7      | 8                     | AB    | 9     | 10     | 11     | 100                |
| 12                                       | AJAZ AHMAD GANAI   | 1                                          | 2    | 3    | 4     | AB   | 5    | 6    | 7     | 8      | AB     | AB                    | AB    | 9     | 10     | 11     | 100                |
| 13                                       | ASIA HANIEF        | 1                                          | 2    | 3    | 4     | 5    | AB   | AB   | 6     | 7      | 8      | AB                    | 9     | 10    | AB     | 11     | 100                |
| 14                                       | BARKAT ALI LONE    | 1                                          | 2    | 3    | AB    | 4    | 5    | 6    | AB    | 7      | AB     | 8                     | 9     | 10    | 11     | AB     | 100                |
| 15                                       | GURSEWAK SINGH     | AB                                         | 1    | 2    | 3     | 4    | 5    | AB   | 6     | 7      | 8      | AB                    | 9     | 10    | 11     | 12     | 100                |
| 16                                       | HARPREET SINGH     | AB                                         | 1    | 2    | 3     | 4    | 5    | AB   | 6     | 7      | 8      | AB                    | 9     | 10    | 11     | 12     | 100                |
| 17                                       | JASHAN SHARMA      | 1                                          | 2    | AB   | AB    | 3    | 4    | 5    | 6     | AB     | 7      | 8                     | AB    | 9     | 10     | 11     | 100                |
| 18                                       | KARAN KATARIA      | 1                                          | 2    | 3    | 4     | AB   | 5    | 6    | 7     | 8      | AB     | AB                    | AB    | 9     | 10     | 11     | 100                |
| 19                                       | MANISH KUMAR       | 1                                          | 2    | AB   | AB    | 3    | 4    | 5    | 6     | AB     | 7      | 8                     | AB    | 9     | 10     | 11     | 100                |
| 20                                       | MIR SHABNUM AZAD   | 1                                          | 2    | 3    | 4     | AB   | 5    | 6    | 7     | 8      | AB     | AB                    | AB    | 9     | 10     | 11     | 100                |

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# BASIC INDUSTRIAL AUTOMATION

## COURSE OUTLINE

This course provides an overall exposure to the technology of Industrial Automation and Control as widely seen in factories of all types both for discrete and continuous manufacturing. The course, in 40 lectures, discusses a wide range of related topics from the advantage and architecture of automation systems, measurement systems including sensors and signal conditioning, discrete and continuous variable control systems, hydraulic, pneumatic and electric actuators, industrial communication and embedded computing and CNC Machines. A student of IIT Kharagpur once commented - “because of the course I can identify and relate to much of the equipment that I see in a factory”..

### COURSE DETAIL

1-2 Introduction

3-4 Architecture of Industrial Automation Systems

II

5-6 Measurement Systems Characteristics

7-8 Data Acquisition Systems

III

9-10 Introduction to Automatic Control

11-12 P-I-D Control

13-14 PID Control Tuning

15-16 Feed forward Control Ratio Control

17-18 Time Delay Systems and Inverse Response Systems

19-20 Special Control Structures

21 Concluding Lesson on Process Control (Self-study)

22-23 Introduction to Sequence Control, PLC, RLL

24-25 Sequence Control. Scan Cycle, Simple RLL Programs

26-27 Sequence Control. More RLL Elements, RLL Syntax

28-29 A Structured Design Approach to Sequence Control

30-31 PLC Hardware Environment

IV

32-33 Flow Control Valves

34-35 Hydraulic Control Systems - I

36-37 Hydraulic Control Systems - II

38-39 Industrial Hydraulic Circuit

40-41 Pneumatic Control Systems - I

42-43 Pneumatic Systems - II

44-45 Energy Savings with Variable Speed Drives

46-47 Introduction To CNC Machines

V

48-49 The Field bus Network - I

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50-51 Higher Level Automation Systems

52 Course Review and Conclusion (Self-study)

References:

1. Industrial Instrumentation, Control and Automation, S. Mukhopadhyay, S. Sen and A. K. Deb, Jaico Publishing House, 2013
2. Chemical Process Control, An Introduction to Theory and Practice, George Stephanopoulos, Prentice Hall India, 2012
3. Electric Motor Drives, Modelling, Analysis and Control, R. Krishnan, Prentice Hall India, 2002
4. Hydraulic Control Systems, Herbert E. Merritt, Wiley, 1991

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2022-23**

| S.NO | ROLL NO | NAME               | BRANCH    | YEAR | VALUE ADDED COURSE          |
|------|---------|--------------------|-----------|------|-----------------------------|
| 1    | 2105035 | AVNEET KAUR        | B.Tech EE | 2ND  | BASIC INDUSTRIAL AUTOMATION |
| 2    | 2105036 | CHARANJEET         | B.Tech EE | 2ND  | BASIC INDUSTRIAL AUTOMATION |
| 3    | 2105037 | DAMANPREET SINGH   | B.Tech EE | 2ND  | BASIC INDUSTRIAL AUTOMATION |
| 4    | 2105038 | RUPESH KUMAR YADAV | B.Tech EE | 2ND  | BASIC INDUSTRIAL AUTOMATION |
| 5    | 2105039 | VARUN SAINI        | B.Tech EE | 2ND  | BASIC INDUSTRIAL AUTOMATION |
| 6    | 2204551 | AATIF AHMAD RATHER | B.Tech EE | 2ND  | BASIC INDUSTRIAL AUTOMATION |
| 7    | 2204552 | AMARDEEP SINGH     | B.Tech EE | 2ND  | BASIC INDUSTRIAL AUTOMATION |
| 8    | 2204553 | AMARJEET SINGH     | B.Tech EE | 2ND  | BASIC INDUSTRIAL AUTOMATION |
| 9    | 2204554 | HARPREET SINGH     | B.Tech EE | 2ND  | BASIC INDUSTRIAL AUTOMATION |
| 10   | 2204555 | NARINDER KUMAR     | B.Tech EE | 2ND  | BASIC INDUSTRIAL AUTOMATION |
| 11   | 2204556 | NITISH KUMAR       | B.Tech EE | 2ND  | BASIC INDUSTRIAL AUTOMATION |
| 12   | 2204582 | AJAZ AHMAD GANAI   | M.Tech EE | 1st  | BASIC INDUSTRIAL AUTOMATION |
| 13   | 2204584 | ASIA HANIEF        | M.Tech EE | 1st  | BASIC INDUSTRIAL AUTOMATION |
| 14   | 2204584 | BARKAT ALI LONE    | M.Tech EE | 1st  | BASIC INDUSTRIAL            |

|    |         |                  |           |     |                             |
|----|---------|------------------|-----------|-----|-----------------------------|
|    |         |                  |           |     | AUTOMATION                  |
| 15 | 2204585 | GURSEWAK SINGH   | M.Tech EE | 1st | BASIC INDUSTRIAL AUTOMATION |
| 16 | 2204586 | HARPREET SINGH   | M.Tech EE | 1st | BASIC INDUSTRIAL AUTOMATION |
| 17 | 2204587 | JASHAN SHARMA    | M.Tech EE | 1st | BASIC INDUSTRIAL AUTOMATION |
| 18 | 2204588 | KARAN KATARIA    | M.Tech EE | 1st | BASIC INDUSTRIAL AUTOMATION |
| 19 | 2204589 | MANISH KUMAR     | M.Tech EE | 1st | BASIC INDUSTRIAL AUTOMATION |
| 20 | 2204590 | MIR SHABNUM AZAD | M.Tech EE | 1st | BASIC INDUSTRIAL AUTOMATION |

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## *Certificate of Participation*

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Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

## Academic Year 2022-23

### Activity organized Report

Date : 22.11.2022

|                               |                                                                                                                                                                                                                                                                                                                 |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                              |
| Title of Activity             | PCB SOFTWARE AND HARD WARE                                                                                                                                                                                                                                                                                      |
| Programme                     | B.Tech CSE,EE                                                                                                                                                                                                                                                                                                   |
| Date of Commencement          | 16.8.2022                                                                                                                                                                                                                                                                                                       |
| Date of Completion            | 22.11.2022                                                                                                                                                                                                                                                                                                      |
| Place of activity             | B113/B114                                                                                                                                                                                                                                                                                                       |
| No of participants Enrolled   | 17                                                                                                                                                                                                                                                                                                              |
| No of participants completed  | 15                                                                                                                                                                                                                                                                                                              |
| Course Coordinator and Expert | MS RUCHI AND MS BARINDERJIT KAUR                                                                                                                                                                                                                                                                                |
| Summary of activity           | The value added course for the ODD Semester During the Academic Year 2022-23 was Successfully Organized .The Course On “PCB SOFTWARE AND HARDWARE” was covered .It was aimed at various course students to develops pcb software .A total of 17 students registered for the course and 15 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                 |

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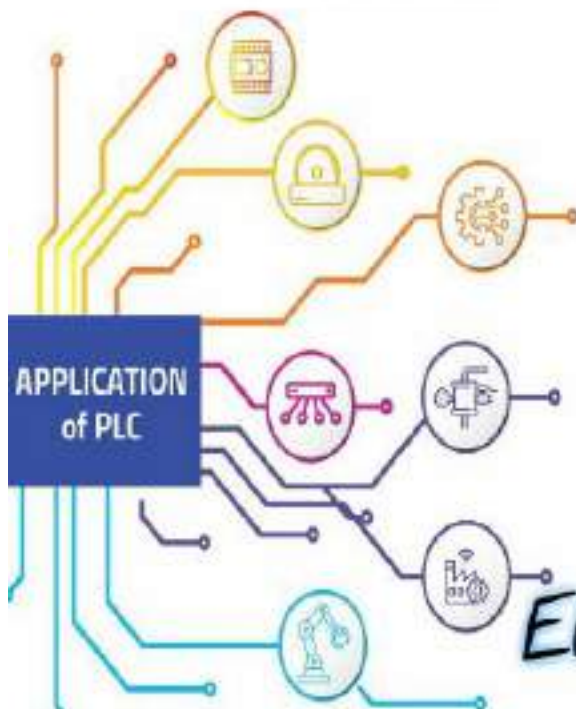
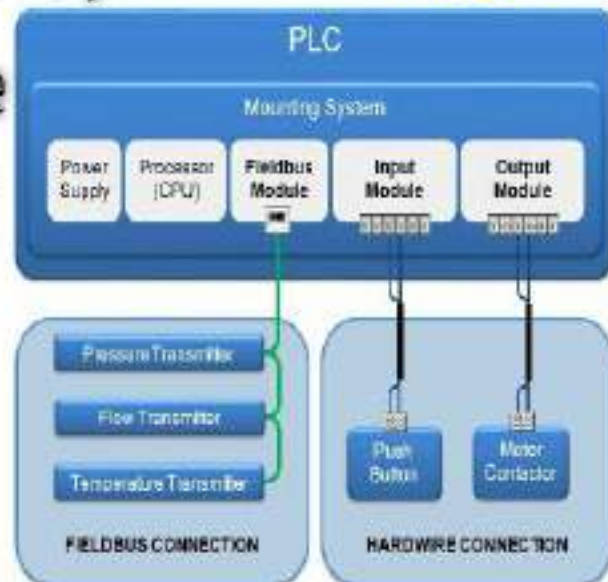


# PLC (software & hardware)

value added course

Commencement

From:-  
16/8/2022



Coordinator:-  
Ruchi Banker

Department of  
Electrical Engineering

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CAMPUS  
ROPAR

IET/DEPT CSE / ITS

Date: 16/8/2022

PRINCIPAL  
IET BHADDAL  
ROPAR

**Permission For Conducting value added course and allocate faculty member for same**

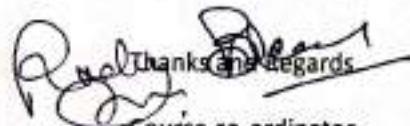
It is to bring to your kind notice that following value added course is finalized For academic Year 2022-23. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class         | Contact Hrs | Date of Commencement | Expert                                     |
|------|----------------------------|---------------|-------------|----------------------|--------------------------------------------|
| 1    | PCB SOFTWARE AND HARD WARE | B.TECH CSE,EE | 30/45       | 16.8.2022            | Ms Ruchi<br>And Ms<br>Barinder jit<br>Kaur |
|      |                            |               |             |                      |                                            |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and regards  
Course co-ordinator

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)







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ROPAR

B.T./VAC/CSE/124

DATE 16/8/2022

## NOTICE

It is for the information of all students of - That **CSE/EE** department is conducting value added course entitled - **PCB SOFTWARE AND HARD WARE** from -16/08/2022 .The Course is scheduled for - --45 hrs duration.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

*[Handwritten Signature]*  
Course Co-ordinator

*[Handwritten Signature]*  
Head of Department

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Cc : Principal ( For Kind Information please)  
Head Of all Departments ( For Information)  
IQAC  
ALL the notice boards

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Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)



| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                   |            |      |      |       |      |      |      |       |        |        |        |       |       |      |        |           |
|------------------------------------------|-------------------|------------|------|------|-------|------|------|------|-------|--------|--------|--------|-------|-------|------|--------|-----------|
| DURATION 3HR                             |                   |            |      |      |       |      |      |      |       |        |        |        |       |       |      |        |           |
| S.no                                     | Name              | 16/8       | 23/8 | 30/8 | 6-Sep | 13/9 | 20/9 | 27/9 | 4-Oct | 11-Oct | 18-Oct | 25-Oct | 1-Nov | 8-Nov | #### | 22-Nov | SIGNATURE |
| 1                                        | AMANDEEP SINGH    | 1          | 2    | 3    | AB    | 4    | AB   | 5    | 6     | 7      | AB     | 8      | 9     | 10    | AB   | 11     |           |
| 2                                        | ANIKET KUMAR      | AB         | 1    | AB   | 2     | 3    | 4    | AB   | 5     | AB     | 6      | 7      | 8     | AB    | 9    | 10     |           |
| 3                                        | ANSHDEEP BHATHAL  | 1          | AB   | 2    | 3     | AB   | 4    | 5    | AB    | 6      | 7      | AB     | 8     | 9     | 10   | AB     |           |
| 4                                        | ARSHDEEP SINGH    | 1          | 2    | 3    | 4     | 5    | 6    | 7    | 8     | 9      | 10     | 11     | AB    | AB    | AB   | 12     |           |
| 5                                        | GURPAL SINGH      | 1          | 2    | 3    | AB    | 4    | AB   | 5    | 6     | 7      | AB     | 8      | 9     | 10    | AB   | 11     |           |
| 6                                        | GURPREET KAUR     | AB         | 1    | AB   | 2     | 3    | 4    | AB   | 5     | AB     | 6      | 7      | 8     | AB    | 9    | 10     |           |
| 7                                        | LOVEPREET SINGH   | 1          | AB   | 2    | 3     | AB   | 4    | 5    | AB    | 6      | 7      | AB     | 8     | 9     | 10   | AB     |           |
| 8                                        | POOJA             | 1          | 2    | 3    | 4     | 5    | 6    | 7    | 8     | 9      | 10     | 11     | AB    | AB    | AB   | 12     |           |
| 9                                        | RITIKA THAKUR     | AB         | 1    | AB   | 2     | 3    | 4    | AB   | 5     | AB     | 6      | 7      | 8     | AB    | 9    | 10     |           |
| 10                                       | RHYTHMPREET SINGH | REGISTERED |      |      |       |      |      |      |       |        |        |        |       |       |      |        |           |
| 11                                       | SATPAL            | AB         | 1    | AB   | 2     | 3    | 4    | AB   | 5     | AB     | 6      | 7      | 8     | AB    | 9    | 10     |           |
| 12                                       | SATWINDER SINGH   | 1          | AB   | 2    | 3     | AB   | 4    | 5    | AB    | 6      | 7      | AB     | 8     | 9     | 10   | AB     |           |
| 13                                       | SAURAV            | 1          | 2    | 3    | 4     | 5    | 6    | 7    | 8     | 9      | 10     | 11     | AB    | AB    | AB   | 12     |           |
| 14                                       | SHAHNAWAZ GUL     | REGISTERED |      |      |       |      |      |      |       |        |        |        |       |       |      |        |           |
| 15                                       | SUKHJOT SINGH     | 1          | 2    | 3    | AB    | 4    | AB   | 5    | 6     | 7      | AB     | 8      | 9     | 10    | AB   | 11     |           |
| 16                                       | SYED ASIM KHURSHI | AB         | 1    | AB   | 2     | 3    | 4    | AB   | 5     | AB     | 6      | 7      | 8     | AB    | 9    | 10     |           |
| 17                                       | YASHKARAN SINGH   | 1          | AB   | 2    | 3     | AB   | 4    | 5    | AB    | 6      | 7      | AB     | 8     | 9     | 10   | AB     |           |

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*Shubh Singh*



## PCB SOFTWARE AND HARDWARE

### Objective of the Course

This is a basic course for designing of PCB using software. PCB (Printed Circuit Board) designing is an integral part of each electronics products and this program is designed to make students capable to design their own projects PCB up to industrial grade.

### Topics Covered:

1. Introduction to PCB designing concepts
2. Component introduction and their categories
3. Introduction to Development Tools
4. Detailed description and practical of PCB designing
5. Lab practice and designing concepts Objectives
  - Identifying Electronic Components Symbols & Footprints
  - Constructing your Component libraries & use them effectively
  - Schematic creation & interpretation
  - Effective use of design rules & interfacing between schematic & PCB
  - Component placement & routing techniques for various technologies

### Outcomes

- Students are able to design a schematic of their circuit
- Students are able to design PCB layout of their design
- Students are capable to produce PCB of their own circuit
- The course is intended to give the students the necessary knowledge and of PCB design steps, starting from a simple schematic, through creating new components, and all the way to down a final PCB layout
- Recognize the technologies used in electronic industry through the practical experience gained in the course.

### Software used

- Diptrace
- Eagle PCB

### Content Lectures

#### 1 Introduction to PCB

#### Designing Concepts

#### Introduction & Brief History

#### What is PCB

#### Difference between PWB and PCB

#### Types of PCBs: Single Sided (Single Layer), Multi-Layer (Double Layer)

#### PCB Materials

#### Introduction to Electronic Design Automation (EDA)

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Brief History of EDA  
Latest Trends in Market  
How it helps and Why it requires  
Different EDA tools  
Introduction to SPICE and PSPICE Environment  
2 Component  
Introduction and  
their categories  
Types of Components  
Active Components  
o Diode  
o Transistor  
o MOSFET  
o LED  
o SCR  
o Integrated Circuits (ICs)  
Passive Components  
o Resistor  
o Capacitor  
o Inductor  
o Transformer  
3 Component Package  
Types  
Through Hole Packages  
o Axial lead  
o Radial Lead  
o Single Inline Package(SIP)  
o Dual Inline Package(DIP)  
o Transistor Outline(TO)  
o Pin Grid Array(PGA)  
Through Hole Packages  
o Metal Electrode Face(MELF)  
o Small Outline Integrated  
Circuit(SOIC)  
o Quad Flat Pack(QFP) and Thin  
QFP (TQFP)  
o Plastic Leaded Chip  
Carrier(PLCC)  
4 Introduction to  
Development Tools Introduction to PCB Design using

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Distress tool  
Introduction to PCB Design using Eagle  
tool  
4  
5 Detailed Description  
& Practical of PCB  
Designing  
PCB Designing Flow Chart  
Schematic Entry  
Net listing  
PCB Layout Designing  
Prototype Designing  
o Design Rule Check (DRC)  
o Design for Manufacturing (DFM)  
PCB Making  
o Printing  
o Etching  
o Drilling  
Assembly of components

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2022-23**

| S.NO | ROLL NO | NAME               | BRANCH     | YEAR | VALUE ADDED COURSE         |
|------|---------|--------------------|------------|------|----------------------------|
| 1    | 2005288 | AMANDEEP SINGH     | B.Tech CSE | 3RD  | PCB SOFTWARE AND HARD WARE |
| 2    | 2005289 | ANIKET KUMAR       | B.Tech CSE | 3RD  | PCB SOFTWARE AND HARD WARE |
| 3    | 2005290 | ANSHDEEP BHATHAL   | B.Tech CSE | 3RD  | PCB SOFTWARE AND HARD WARE |
| 4    | 2005291 | ARSHDEEP SINGH     | B.Tech CSE | 3RD  | PCB SOFTWARE AND HARD WARE |
| 5    | 2005292 | GAGANDEEP          | B.Tech CSE | 3RD  | PCB SOFTWARE AND HARD WARE |
| 6    | 2005293 | GURINDER KAUR      | B.Tech CSE | 3RD  | PCB SOFTWARE AND HARD WARE |
| 7    | 2005294 | GURPAL SINGH       | B.Tech CSE | 3RD  | PCB SOFTWARE AND HARD WARE |
| 8    | 2005295 | GURPREET KAUR      | B.Tech CSE | 3RD  | PCB SOFTWARE AND HARD WARE |
| 9    | 2005297 | LOVEPREET SINGH    | B.Tech CSE | 3RD  | PCB SOFTWARE AND HARD WARE |
| 10   | 2005298 | POOJA              | B.Tech CSE | 3RD  | PCB SOFTWARE AND HARD WARE |
| 11   | 2005299 | RITIKA THAKUR      | B.Tech CSE | 3RD  | PCB SOFTWARE AND HARD WARE |
| 12   | 2005300 | ROSHAN KUMAR       | B.Tech CSE | 3RD  | PCB SOFTWARE AND HARD WARE |
| 13   | 2005301 | SONU               | B.Tech CSE | 3RD  | PCB SOFTWARE AND HARD WARE |
| 14   | 2105115 | ADARSH KUMAR SINGH | B.Tech CSE | 3RD  | PCB SOFTWARE AND HARD WARE |
| 15   | 2105127 | RHYTHMPREET SINGH  | B.Tech EE  | 3RD  | PCB SOFTWARE AND HARD WARE |
| 16   | 2105128 | SATPAL             | B.Tech EE  | 3RD  | PCB SOFTWARE AND HARD WARE |
| 17   | 2105129 | SATWINDER SINGH    | B.Tech EE  | 3RD  | PCB SOFTWARE AND HARD WARE |
| 18   | 2105130 | SAURAV             | B.Tech EE  | 3RD  | PCB SOFTWARE AND HARD WARE |
| 19   | 2105131 | SHAHNAWAZ GUL      | B.Tech EE  | 3RD  | PCB SOFTWARE AND HARD WARE |
| 20   | 2105132 | SUKHJOT SINGH      | B.Tech EE  | 3RD  | PCB SOFTWARE AND HARD WARE |



|    |         |                       |           |     |                               |
|----|---------|-----------------------|-----------|-----|-------------------------------|
| 21 | 2105133 | SYED ASIM<br>KHURSHID | B.Tech EE | 3RD | PCB SOFTWARE<br>AND HARD WARE |
| 22 | 2105134 | YASHKARAN<br>SINGH    | B.Tech EE | 3RD | PCB SOFTWARE<br>AND HARD WARE |

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CAMPUS  
OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

Academic Year 2022-23

Activity organized Report

Date : 24.10.2022

|                               |                                                                                                                                                                                                                                                                                                                    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                 |
| Title of Activity             | Intro to Good Lab Practice                                                                                                                                                                                                                                                                                         |
| Programme                     | B.Tech CSE,EE,ME,CIVIL                                                                                                                                                                                                                                                                                             |
| Date of Commencement          | 18.7.2022                                                                                                                                                                                                                                                                                                          |
| Date of Completion            | 24.10.2022                                                                                                                                                                                                                                                                                                         |
| Place of activity             | C- BLOCK                                                                                                                                                                                                                                                                                                           |
| No of participants Enrolled   | 18                                                                                                                                                                                                                                                                                                                 |
| No of participants completed  | 15                                                                                                                                                                                                                                                                                                                 |
| Course Coordinator and Expert | HARDEEP SINGH                                                                                                                                                                                                                                                                                                      |
| Summary of activity           | The value added course for the odd Semester During the Academic Year 2022-23 was Successfully Organized .The Course On “INTRO TO GOOD LAB PRACTICE ” was covered .It Was aimed at various course students tounderstand lab practice .A total of 18 students registered for the course and 15 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                    |

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## Intro to Good Laboratory Practices Value Added Course

### GOOD LABORATORY PRACTICES

Elements of GLP



Commencement from:- 18/7/2022

Coordinator:- Hardeep Singh

**DEPARTMENT OF CIVIL ENGINEERING**

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IET/DEPT Civil / 106

Date: 18/7/2022

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**Permission For Conducting value added course and allocate faculty member for same**

It is to bring to your kind notice that following value added course is finalized For academic Year 2022-23. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class                     | Contact Hrs | Date of Commencement | Expert        |
|------|----------------------------|---------------------------|-------------|----------------------|---------------|
| 1    | Intro to Good Lab Practice | B.TECH<br>CSE,EE,ME,CIVIL | 30/45       | 18.7.2022            | HARDEEP SINGH |
|      |                            |                           |             |                      |               |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

Course co-ordinator

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)





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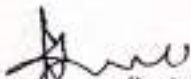
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DATE 18/7/2022

## NOTICE

It is for the information of all students of - That Civil department is conducting value added course entitled Intro to Good Lab Practice - from -18/07/2022. The Course is scheduled for --- 45 hrs duration.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

  
Head of Department

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Head Of all Departments ( For Information)  
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Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)



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| Duration 3HR |                   | ATTENDANCE SHEET FOR VALUE ADDED COURSES  |      |       |       |      |      |      |       |        |        |        |                        |        |       |       |                    |  |
|--------------|-------------------|-------------------------------------------|------|-------|-------|------|------|------|-------|--------|--------|--------|------------------------|--------|-------|-------|--------------------|--|
|              |                   | Name Of Course Intro to Good Lab Practice |      |       |       |      |      |      |       |        |        |        | Course Duration 45 HRS |        |       |       |                    |  |
| S.no         | Name              | 18/7                                      | 25/7 | 1-Aug | 8-Aug | 15/8 | 22/8 | 29/8 | 5-Sep | 12-Sep | 19-Sep | 26-Sep | 3-Oct                  | 10-Oct | 17/10 | 24/10 | Total attendance % |  |
| 1            | ISAIAH MORDECAI   | 1                                         | 2    | 3     | 4     | 5    | 6    | AB   | AB    | AB     | 7      | 8      | 9                      | 10     | 11    | 12    | 100                |  |
| 2            | JAGDEEP KAUR      | 1                                         | 2    | AB    | 3     | 4    | AB   | 5    | 6     | 7      | AB     | AB     | 8                      | 9      | 10    | 11    | 100                |  |
| 3            | JASPREET KAUR     | AB                                        | 1    | 2     | AB    | 3    | 4    | 5    | 6     | 7      | 8      | 9      | AB                     | AB     | 10    | 11    | 100                |  |
| 4            | KAJAL KHANORIA    | 1                                         | 2    | 3     | 4     | AB   | AB   | 5    | 6     | AB     | 7      | 8      | 9                      | AB     | 10    | 11    | 100                |  |
| 5            | KULVEER SINGH     | 1                                         | 2    | 3     | 4     | 5    | 6    | AB   | AB    | AB     | 7      | 8      | 9                      | 10     | 11    | 12    | 100                |  |
| 6            | KUSHAL BHALWAL    | 1                                         | 2    | AB    | 3     | 4    | AB   | 5    | 6     | 7      | AB     | AB     | 8                      | 9      | 10    | 11    | 100                |  |
| 7            | HARPREET SAINI    | AB                                        | 1    | 2     | AB    | 3    | 4    | 5    | 6     | 7      | 8      | 9      | AB                     | AB     | 10    | 11    | 100                |  |
| 8            | NABIL MAMJI       | 1                                         | 2    | 3     | 4     | AB   | AB   | 5    | 6     | AB     | 7      | 8      | 9                      | AB     | 10    | 11    | 100                |  |
| 9            | RITIK KUMAR       | AB                                        | 1    | 2     | AB    | 3    | 4    | 5    | 6     | 7      | 8      | 9      | AB                     | AB     | 10    | 11    | 100                |  |
| 10           | ESHWAR            | NOT REGISTERED                            |      |       |       |      |      |      |       |        |        |        |                        |        |       |       |                    |  |
| 11           | GURPREET SINGH    | 1                                         | 2    | 3     | 4     | AB   | AB   | 5    | 6     | AB     | 7      | 8      | 9                      | AB     | 10    | 11    | 100                |  |
| 12           | RAHUL             | 1                                         | 2    | 3     | 4     | 5    | 6    | AB   | AB    | AB     | 7      | 8      | 9                      | 10     | 11    | 12    | 100                |  |
| 13           | CHAKSHU PURI      | 1                                         | 2    | AB    | 3     | 4    | AB   | 5    | 6     | 7      | AB     | AB     | 8                      | 9      | 10    | 11    | 100                |  |
| 14           | GANESH KUMAR      | NOT REGISTERED                            |      |       |       |      |      |      |       |        |        |        |                        |        |       |       |                    |  |
| 15           | HARMANPREET SINGH | 1                                         | 2    | 3     | 4     | 5    | 6    | AB   | AB    | AB     | 7      | 8      | 9                      | 10     | 11    | 12    | 100                |  |
| 16           | NIKHIL BANGA      | 1                                         | 2    | AB    | 3     | 4    | AB   | 5    | 6     | 7      | AB     | AB     | 8                      | 9      | 10    | 11    | 100                |  |
| 17           | ROHIT THAKUR      | 1                                         | 2    | 3     | 4     | AB   | AB   | 5    | 6     | AB     | 7      | 8      | 9                      | AB     | 10    | 11    | 100                |  |
| 18           | SIKAS BATTI       | AB                                        | 1    | 2     | AB    | 3    | 4    | 5    | 6     | 7      | 8      | 9      | AB                     | AB     | 10    | 11    | 100                |  |
| 19           | WAEEL NOMAN       | NOT REGISTERED                            |      |       |       |      |      |      |       |        |        |        |                        |        |       |       |                    |  |

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## INTRO TO GOOD LAB PRACTICE

### Learning Objectives:

- To teach the students safety handling and regulation laboratory facility.
- To learn how to record, keep and analyze laboratory data with accuracy.
- To practice minimization of Errors related with handling of laboratory accessories and equipment's.
- To learn Standard Operating Procedures (SOPs) Laboratory equipment's.

### Course outcomes

- On the successful completion of the course, student will be able to-
  - understand the basic calibration and handling of instrumentation in laboratory.
  - safely practice, basic laboratory procedures and protocols in on job laboratory situations.
  - maintain laboratory records, complaints with current industry standards.
  - maintain audit record

### Unit I

Introduction to GLP, History, Scope, Fundamental points of GLP (Resources Characterization, Rules, Results, Quality assurance)

### Unit II: (8L)

Laboratory rules and Protocols: General Rules/Protocols for Lab Safety measures, Precaution and Safety in handling of chemicals, Laboratory tools, Glassware and instruments. Internal and External Audit, Practicals • Preparation of Standard Solution and Buffers • Demo and Maintenance of Internal and External Audit

### Unit III: (8L)

Laboratory hierarchy and SOP: Levels of Laboratories, Log Book Maintenance, Basic SOPs for instrument handling and Maintenance Practicals Calibration of Instruments: PH meter, colorimeter, spectrophotometer, water bath, Distillation assembly, Burette, Pipette etc.

### Unit IV: (6L)

Record Keeping and Interpretation Keeping data records, its analysis by using statistical and mathematical tools. Result analysis and its interpretation. Practicals

1. Use of Microsoft word, Excel. (For Data entry, calculation and graphical representation)
2. Use of internet and emails

Recommended Textbooks and References:

1. Handbook Good Laboratory Practices-World health organization (WHO)
2. Life science protocol manual (2018)-DBT star college scheme
3. Guidelines for good laboratory practices-Indian council of medical research,

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2022-23**

| S.NO | ROLL NO | NAME              | BRANCH       | YEAR | VALUE ADDED COURSE         |
|------|---------|-------------------|--------------|------|----------------------------|
| 1    | 1906406 | ISIAH MORDECAI    | B.Tech CSE   | 4TH  | Intro to Good Lab Practice |
| 2    | 1906407 | JAGDEEP KAUR      | B.Tech CSE   | 4TH  | Intro to Good Lab Practice |
| 3    | 1906408 | JASPREET KAUR     | B.Tech CSE   | 4TH  | Intro to Good Lab Practice |
| 4    | 1906409 | KAJAL KHANORIA    | B.Tech CSE   | 4TH  | Intro to Good Lab Practice |
| 5    | 1906411 | KULVEER SINGH     | B.Tech CSE   | 4TH  | Intro to Good Lab Practice |
| 6    | 1906412 | KUSHAL BHALWAL    | B.Tech CSE   | 4TH  | Intro to Good Lab Practice |
| 7    | 1906400 | HARPREET SAINI    | B.Tech CIVIL | 4TH  | Intro to Good Lab Practice |
| 8    | 1906401 | NABIL MAMJI       | B.Tech CIVIL | 4TH  | Intro to Good Lab Practice |
| 9    | 1906402 | RITIK KUMAR       | B.Tech CIVIL | 4TH  | Intro to Good Lab Practice |
| 10   | 1906422 | ESHWAR            | B.Tech EE    | 4TH  | Intro to Good Lab Practice |
| 11   | 1906423 | GURPREET SINGH    | B.Tech EE    | 4TH  | Intro to Good Lab Practice |
| 12   | 2005343 | RAHUL             | B.Tech EE    | 4TH  | Intro to Good Lab Practice |
| 13   | 1906437 | CHAKSHU PURI      | B.Tech ME    | 4TH  | Intro to Good Lab Practice |
| 14   | 1906438 | GANESH KUMAR      | B.Tech ME    | 4TH  | Intro to Good Lab Practice |
| 15   | 1906439 | HARMANPREET SINGH | B.Tech ME    | 4TH  | Intro to Good Lab Practice |
| 16   | 1906441 | NIKHIL BANGA      | B.Tech ME    | 4TH  | Intro to Good Lab Practice |
| 17   | 1934518 | ROHIT THAKUR      | B.Tech ME    | 4TH  | Intro to Good Lab Practice |
| 18   | 1934517 | SIKAS BATTI       | B.Tech ME    | 4TH  | Intro to Good Lab Practice |
| 19   | 1906447 | WAEEL NOMAN       | B.Tech ME    | 4TH  | Intro to Good Lab Practice |

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Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

**Academic Year 2022-23**

**Activity organized Report**

**Date : 19.10.2022**

|                                      |                                                                                                                                                                                                                                                                                                           |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name of activity</b>              | Value Added Course                                                                                                                                                                                                                                                                                        |
| <b>Title of Activity</b>             | LAMP                                                                                                                                                                                                                                                                                                      |
| <b>Programme</b>                     | B.Tech CSE,MCA                                                                                                                                                                                                                                                                                            |
| <b>Date of Commencement</b>          | 13.7.2022                                                                                                                                                                                                                                                                                                 |
| <b>Date of Completion</b>            | 19.10.2022                                                                                                                                                                                                                                                                                                |
| <b>Place of activity</b>             | B113/B114                                                                                                                                                                                                                                                                                                 |
| <b>No of participants Enrolled</b>   | 20                                                                                                                                                                                                                                                                                                        |
| <b>No of participants completed</b>  | 17                                                                                                                                                                                                                                                                                                        |
| <b>Course Coordinator and Expert</b> | Ms Samriti                                                                                                                                                                                                                                                                                                |
| <b>Summary of activity</b>           | The value added course for the odd Semester During the Academic Year 2022-23 was Successfully Organized .The Course On “LAMP” was covered .It Was aimed at various course students to understand various softwares on lamp .A total of 20 students registered for the course and 17 completed the Course. |
|                                      |                                                                                                                                                                                                                                                                                                           |

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## LAMP

*value added  
course*



**Commencement**

**From:- 13/7/2022**

**Coordinator:-**

**Ms. Samriti**

**Department of MCA**

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IET/DEPT-MCA/110

Date : 13/7/2022

PRINCIPAL  
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ROPAR

**Permission For Conducting value added course and allocate faculty member for same**

It is to bring to your kind notice that following value added course is finalized for academic Year 2022-23. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class           | Contact Hrs | Date of Commencement | Expert     |
|------|----------------------------|-----------------|-------------|----------------------|------------|
| 1    | LAMP                       | B.tech CSE, MCA | 30/45       | 13.07.2022           | Ms Samriti |
|      |                            |                 |             |                      |            |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards  
*Samriti*  
Course co-ordinator



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IET / VAC/MCA/078

DATE 13/7/22

## NOTICE

It is for the information of all students of - That **MCA** department is conducting value added course entitled - **LAMP** from -13/07/2022. The Course is scheduled for ---45 hrs duration.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

*Samiti*  
Course co-ordinator:

*Shublakshan*  
Head of Department

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Cc: Principal ( For Kind information please)  
Head Of all Departments ( For Information)  
IQAC  
ALL the notice boards

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)



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Dept of MCA 2022-23

| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                   |                |                     |      |       |        |        |        |        |       |        |        |        |       |        |        |                      |
|------------------------------------------|-------------------|----------------|---------------------|------|-------|--------|--------|--------|--------|-------|--------|--------|--------|-------|--------|--------|----------------------|
| Duration 3HR                             |                   |                | Name Of Course LAMP |      |       |        |        |        |        |       |        |        |        |       |        |        |                      |
| S.no                                     | Name              | 13/7           | 20/7                | 27/7 | 3-Aug | 10-Aug | 17-Aug | 24-Aug | 31-Aug | 7-Sep | 14-Sep | 21-Sep | 28-Sep | 5-Oct | 12-Oct | 19-Oct | Total attendance %   |
| 1                                        | GURPAL SINGH      | 1              | 2                   | AB   | AB    | 3      | 4      | 5      | 6      | 7     | AB     | AB     | 8      | 9     | 10     | AB     | <u>Two</u>           |
| 2                                        | GURPREET KAUR     | 1              | 2                   | 3    | 4     | AB     | AB     | 5      | 6      | 7     | 8      | 9      | AB     | AB    | 10     | 11     | <u>AB</u>            |
| 3                                        | LOVEPREET SINGH   | AB             | 1                   | 2    | 3     | 4      | 5      | AB     | AB     | 6     | 7      | 8      | 9      | 10    | AB     | 11     | <u>Two</u>           |
| 4                                        | POOJA             | 1              | AB                  | 2    | 3     | 4      | 5      | 6      | 7      | AB    | 8      | 9      | 10     | 11    | AB     | 12     | <u>Pooja</u>         |
| 5                                        | RITIKA THAKUR     | 1              | 2                   | AB   | AB    | 3      | 4      | 5      | 6      | 7     | AB     | AB     | 8      | 9     | 10     | AB     | <u>Ritika Thakur</u> |
| 6                                        | ROSHAN KUMAR      | 1              | 2                   | 3    | 4     | AB     | AB     | 5      | 6      | 7     | 8      | 9      | AB     | AB    | 10     | 11     | <u>Roshan K</u>      |
| 7                                        | AJAY PRATAP SINGH | AB             | 1                   | 2    | 3     | 4      | 5      | AB     | AB     | 6     | 7      | 8      | 9      | 10    | AB     | 11     | <u>A.P. Singh</u>    |
| 8                                        | BAIVHAB KOUNDAL   | 1              | AB                  | 2    | 3     | 4      | 5      | 6      | 7      | AB    | 8      | 9      | 10     | 11    | AB     | 12     | <u>Baivhab</u>       |
| 9                                        | GURVINDER SINGH   | 1              | AB                  | 2    | 3     | 4      | 5      | 6      | 7      | AB    | 8      | 9      | 10     | 11    | AB     | 12     | <u>Gurinder</u>      |
| 10                                       | MANU MINHAS       | NOT REGISTERED |                     |      |       |        |        |        |        |       |        |        |        |       |        |        | <u>Manu</u>          |
| 11                                       | NIKHIL RANA       | 1              | AB                  | 2    | 3     | 4      | 5      | 6      | 7      | AB    | 8      | 9      | 10     | 11    | AB     | 12     | <u>Nikhil</u>        |
| 12                                       | POOJA RANI        | 1              | 2                   | AB   | AB    | 3      | 4      | 5      | 6      | 7     | AB     | AB     | 8      | 9     | 10     | AB     | <u>Pooja</u>         |
| 13                                       | RAJAT KUMAR       | 1              | 2                   | 3    | 4     | AB     | AB     | 5      | 6      | 7     | 8      | 9      | AB     | AB    | 10     | 11     | <u>Rajat</u>         |
| 14                                       | ROHIT KUMAR       | NOT REGISTERED |                     |      |       |        |        |        |        |       |        |        |        |       |        |        |                      |
| 15                                       | SWAPNIL           | AB             | 1                   | 2    | 3     | 4      | 5      | AB     | AB     | 6     | 7      | 8      | 9      | 10    | AB     | 11     | <u>Swapnil</u>       |
| 16                                       | TANUJ BHATIA      | 1              | AB                  | 2    | 3     | 4      | 5      | 6      | 7      | AB    | 8      | 9      | 10     | 11    | AB     | 12     | <u>Tanuj</u>         |
| 17                                       | KANIKA            | 1              | 2                   | AB   | AB    | 3      | 4      | 5      | 6      | 7     | AB     | AB     | 8      | 9     | 10     | AB     | <u>Kanika</u>        |
| 18                                       | KRITIKA BANSAL    | 1              | 2                   | 3    | 4     | AB     | AB     | 5      | 6      | 7     | 8      | 9      | AB     | AB    | 10     | 11     | <u>Kritika</u>       |
| 19                                       | LALIT KUMAR       | AB             | 1                   | 2    | 3     | 4      | 5      | AB     | AB     | 6     | 7      | 8      | 9      | 10    | AB     | 11     | <u>Lalit</u>         |
| 20                                       | LOVPREET KAUR     | 1              | AB                  | 2    | 3     | 4      | 5      | 6      | 7      | AB    | 8      | 9      | 10     | 11    | AB     | 12     | <u>Lovepreet</u>     |

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Samueli

# LAMP

## Course Objective:

The objectives of the course are to:

- ☐ Extend proficiency in development of web application.
- ☐ Able to carry out the study of web page designing and database fundamentals.
- ☐ Get a good quality understanding of web applications of LAMP.

### Linux Fundamentals :

Introduction to the Linux Operating System, Linux Distributions & Installation, Linux Vs Windows, Terminal V/s File Manager, Linux/Unix Commands, File Permissions in Linux/Unix, Installing Software, Linux/Unix Pipes , Grep & Sort Command, Introduction to ShellScripting.

### Programming in PHP :

Introduction to PHP : Evaluation of PHP, Basic Syntax, Defining variable and constant, PHP Data type, Operator and Expression. Decisions, loop, Function, String and Array : Making Decisions, Mixing Decisions and looping with Html, Define a function, Call by value and Call by reference, Recursive function, Creating and accessing String, Searching & Replacing String, String Related Library function, Anatomy of an Array, Element Looping with Index based array, Looping with associative array using each () and foreach(), Some useful Library function.

### Advance PHP and MySql :

Handling Html Form With PHP: Capturing Form Data, Dealing with Multi-value field, Generating File uploaded form, Redirecting a form after submission. Working With File, Directories and State management : Using query string (URL rewriting), Using Hidden field, Using cookies, Using session Database Connectivity with MySql : Connection with MySql Database, Performing basic database operation (DML) (Insert, Delete, Update, Select), Setting query parameter, Executing query.

### Apache HTTP Server :

Introduction of Apache HTTP server, Installation and configuration of the Apache HTTP server, Configuration files in Apache HTTP, Important Apache HTTP commands, Configuration Files, Checking for Apache HTTP problems, Apache Configuration via htaccess, Migration of servers, Configuring virtual hosts in Apache.

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2022-23**

| S.NO | ROLL NO | NAME               | BRANCH     | YEAR | VALUE ADDED COURSE |
|------|---------|--------------------|------------|------|--------------------|
| 1    | 2005294 | GURPAL SINGH       | B.Tech CSE | 3RD  | LAMP               |
| 2    | 2005295 | GURPREET KAUR      | B.Tech CSE | 3RD  | LAMP               |
| 3    | 2005297 | LOVEPREET SINGH    | B.Tech CSE | 3RD  | LAMP               |
| 4    | 2005298 | POOJA              | B.Tech CSE | 3RD  | LAMP               |
| 5    | 2005299 | RITIKA THAKUR      | B.Tech CSE | 3RD  | LAMP               |
| 6    | 2005300 | ROSHAN KUMAR       | B.Tech CSE | 2ND  | LAMP               |
| 7    | 2105088 | ABHISHEK           | MCA        | 2ND  | LAMP               |
| 8    | 2105089 | AMANDEEP KAUR      | MCA        | 2ND  | LAMP               |
| 9    | 2105090 | ANMOLPREET KAUR    | MCA        | 2ND  | LAMP               |
| 10   | 2105091 | AQIB NASEER        | MCA        | 2ND  | LAMP               |
| 11   | 2105092 | HARPREET KAUR      | MCA        | 2ND  | LAMP               |
| 12   | 2105093 | HARSH DHIMAN       | MCA        | 2ND  | LAMP               |
| 13   | 2105094 | KAMALDEEP KAUR     | MCA        | 2ND  | LAMP               |
| 14   | 2105095 | MANDEEP KAUR       | MCA        | 2ND  | LAMP               |
| 15   | 2105096 | MANDEEP SINGH      | MCA        | 2ND  | LAMP               |
| 16   | 2105097 | MOHAMMAD ASIF LONE | MCA        | 2ND  | LAMP               |
| 17   | 2105027 | KANIKA             | B.Tech CSE | 2ND  | LAMP               |
| 18   | 2105028 | KRITIKA BANSAL     | B.Tech CSE | 2ND  | LAMP               |
| 19   | 2105029 | LALIT KUMAR        | B.Tech CSE | 2ND  | LAMP               |
| 20   | 2105030 | LOVPREET KAUR      | B.Tech CSE | 2ND  | LAMP               |

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## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

## Academic Year 2022-23

### Activity organized Report

Date : 18.11.2022

|                               |                                                                                                                                                                                                                                                                                                      |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                   |
| Title of Activity             | Vision Robotics                                                                                                                                                                                                                                                                                      |
| Programme                     | B.TECH EE,ME                                                                                                                                                                                                                                                                                         |
| Date of Commencement          | 12.8.2022                                                                                                                                                                                                                                                                                            |
| Date of Completion            | 18.11.2022                                                                                                                                                                                                                                                                                           |
| Place of activity             | F block seminar hall                                                                                                                                                                                                                                                                                 |
| No of participants Enrolled   | 20                                                                                                                                                                                                                                                                                                   |
| No of participants completed  | 18                                                                                                                                                                                                                                                                                                   |
| Course Coordinator and Expert | ONKAR SINGH                                                                                                                                                                                                                                                                                          |
| Summary of activity           | The value added course for the odd Semester During the Academic Year 2022-23 was Successfully Organized .The Course On “VISION ROBOTICS ” was covered .It Was aimed at various course students to understand robotics .A total of 20 students registered for the course and 18 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                      |

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## Vision Robotics



Value  
added  
course

Commencement from:-12/8/2022

Coordinator:-

Onkar Singh  
Department of  
Mechanical  
Engineering



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IET/DEPT-ME-1047

Date: 12/8/2022

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Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2022-23. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class | Contact Hrs | Date of Commencement | Expert      |
|------|----------------------------|-------|-------------|----------------------|-------------|
| 1    | VISION ROBOTICS            | ME,EE | 30/45       | 12.8.2022            | Onkar singh |
|      |                            |       |             |                      |             |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

Course co-ordinator

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : info@ietbhaddal.edu.in | Website: www.ietbhaddal.edu.in



1/ET/VAC/ME/014

DATE 12/8/2022

### NOTICE

It is for the information of all students of - That **ME** department is conducting value added course entitled **VISION ROBOTICS** - from -12/08/2022. The Course is scheduled for ---45 hrs duration.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course coordinator:

  
Head of Department

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Cc: Principal ( For Kind information please)  
Head Of all Departments ( For Information)  
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Dept of MB

2022-23

| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                   |                                |         |         |       |       |        |       |        |       |      |       |        |       |        |        |                   |
|------------------------------------------|-------------------|--------------------------------|---------|---------|-------|-------|--------|-------|--------|-------|------|-------|--------|-------|--------|--------|-------------------|
| DURATION 3HR                             |                   | Name Of Course VISION ROBOTICS |         |         |       |       |        |       |        |       |      |       |        |       |        |        |                   |
| S.no                                     | Name              | 12th aug                       | 9th aug | 6th aug | 2-Sep | 9-Sep | 16-Sep | ##### | 30-Sep | 7-Oct | #### | ##### | 28-Oct | 4-Nov | 11-Nov | 18-Nov | SIGNATURE         |
| 1                                        | ABHISHEK KUMAR    | 1                              | 2       | 3       | 4     | ab    | ab     | 5     | 6      | ab    | 7    | 8     | 9      | 10    | ab     | 11     | Abhishek          |
| 2                                        | HARISH KUMAR      | 1                              | 2       | 3       | ab    | 4     | 5      | ab    | ab     | 6     | 7    | ab    | ab     | 8     | 9      | 10     | Harish            |
| 3                                        | LITON HOSSAIN     | 1                              | ab      | ab      | 2     | 3     | 4      | 5     | 6      | ab    | 7    | ab    | 8      | 9     | 10     | ab     | Liton             |
| 4                                        | SACHIN KUMAR      | ab                             | 1       | 2       | 3     | 4     | ab     | 5     | 6      | 7     | ab   | 8     | 9      | ab    | 10     | 11     | Sachin Kumar      |
| 5                                        | SHAHZAB ALLAHI    | 1                              | 2       | 3       | 4     | ab    | ab     | 5     | 6      | ab    | 7    | 8     | 9      | 10    | ab     | 11     | Shahzab Ali       |
| 6                                        | VISHAL KUMAR      | 1                              | 2       | 3       | ab    | 4     | 5      | ab    | ab     | 6     | 7    | ab    | ab     | 8     | 9      | 10     | Vishal Kumar      |
| 7                                        | ABRAR NAZIR SHAH  | 1                              | ab      | ab      | 2     | 3     | 4      | 5     | 6      | ab    | 7    | ab    | 8      | 9     | 10     | ab     | AbRAR Shah        |
| 8                                        | ADNAN HUSSAIN     | ab                             | 1       | 2       | 3     | 4     | ab     | 5     | 6      | 7     | ab   | 8     | 9      | ab    | 10     | 11     | Adnan Hussain     |
| 9                                        | AMIT KUMAR        | 1                              | 2       | 3       | ab    | 4     | 5      | ab    | ab     | 6     | 7    | ab    | ab     | 8     | 9      | 10     | Amit Kumar        |
| 10                                       | HAAFIZ JAMAL      | 1                              | ab      | ab      | 2     | 3     | 4      | 5     | 6      | ab    | 7    | ab    | 8      | 9     | 10     | ab     | Haafiz Jamal      |
| 11                                       | HUZOOR ALI        | ab                             | 1       | 2       | 3     | 4     | ab     | 5     | 6      | 7     | ab   | 8     | 9      | ab    | 10     | 11     | Huzoor Ali        |
| 12                                       | SHAILZA KUMARI    | registered                     |         |         |       |       |        |       |        |       |      |       |        |       |        |        | Shailza           |
| 13                                       | WASEEM HASSAN     | 1                              | ab      | ab      | 2     | 3     | 4      | 5     | 6      | ab    | 7    | ab    | 8      | 9     | 10     | ab     | Waseem Hassan     |
| 14                                       | NISHANT RAHMAN    | ab                             | 1       | 2       | 3     | 4     | ab     | 5     | 6      | 7     | ab   | 8     | 9      | ab    | 10     | 11     | Nishant Rahman    |
| 15                                       | MOHAMMAD ILAYAS   | 1                              | 2       | 3       | 4     | ab    | ab     | 5     | 6      | ab    | 7    | 8     | 9      | 10    | ab     | 11     | Mohammad Ilayas   |
| 16                                       | SABEENA NAZIR     | 1                              | 2       | 3       | ab    | 4     | 5      | ab    | ab     | 6     | 7    | ab    | ab     | 8     | 9      | 10     | Sabeena Nazir     |
| 17                                       | MOHD IQBAL SHEIKH | ab                             | 1       | 2       | 3     | 4     | ab     | 5     | 6      | 7     | ab   | 8     | 9      | ab    | 10     | 11     | Mohd Iqbal Sheikh |
| 18                                       | PRERNA SHARMA     | 1                              | 2       | 3       | 4     | ab    | ab     | 5     | 6      | ab    | 7    | 8     | 9      | 10    | ab     | 11     | Prerna Sharma     |
| 19                                       | SHEKHAR           | 1                              | 2       | 3       | ab    | 4     | 5      | ab    | ab     | 6     | 7    | ab    | ab     | 8     | 9      | 10     | Shekhar           |

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# ROBOTIC VISION

**Course Outcomes:** At the end of the Course, the student shall be able to

CO1: explain the significance and various components of machine vision system (L2)

CO2: discuss image acquisition and digital image processing operators (L2)

CO3: discuss image segmentation and analysis techniques (L2)

CO4: discuss robot programming and vision algorithms for robot vision (L2)

CO5: apply the concepts of machine vision and image processing in various industrial applications (L3)

## UNIT- I 10 Lectures

Introduction to Computer Vision: Human visual system, comparison with a machine vision system, Computer Vision, Industrial Machine Vision vs. Image understanding, components of machine vision system in context of a manufacturing environment. Illumination and sensors: Control of illumination and light levels, Image formation- elementary objects, camera sensors- CCD, CMOS, characteristics of camera sensors.

Learning outcomes: At the end of this unit, the student will be able to,

1. describe human visual system and machine vision system (L2)
2. explain various components of machine vision system (L2)
3. discuss various camera sensors used in machine vision (L2)

## UNIT- II 10 Lectures

Image Acquisition: Sampling and quantization, Inter pixel distances, adjacency conventions. Image acquisition hardware, speed considerations. Digital image processing: Basics of digital image, Point operations- contrast stretching, thresholding, noise suppression by image addition, background subtraction. Neighborhood operations- convolution, noise suppression.

Learning outcomes: At the end of this unit the student will be able to

1. discuss the importance of sampling and quantization (L2)
2. explain basics of digital image processing (L2)

## UNIT- III 10 Lectures

Image Segmentation : An overview of edge detection techniques: Gradient and difference based Operators-Roberts estimate operators, template matching, edge fitting, assessment of edge Detection Image Analysis: Introduction- inspection, location and identification, image analysis techniques- template matching, components of statistical pattern recognition process, Houghs transform technique.

Learning outcomes: At the end of this unit the student will be able to

1. describe different approaches to edge detection techniques (L2)
2. explain various commonly used image analysis techniques (L2)

## UNIT- IV 10 Lectures

Robot programming and robot vision: Brief review of robot programming methodologies, homogeneous transformations, robotic programming language- RCL: data types and



variable declarations, arithmetic expression statements, frame expression statements. Vision algorithms: Vision algorithms for identifying end wires- binary vision algorithm, greyscale vision algorithm, active ranging using structured light technique in industrial vision.

Learning outcomes: At the end of this unit the student will be able to

1. discuss various robot programming methodologies (L2)
2. explain vision algorithms for identifying end wires (L2)

### **UNIT- V 10 Lectures**

Machine vision in manufacturing: Types of tasks- code recognition, object recognition, position recognition, completeness check, shape and dimension check, surface inspection. Types of production, types of evaluation, Value- Adding machine vision. Case Studies: Machine vision applications to industries: Condition monitoring, metrology and gauging, OCR and OCV, Augmented reality, Surveillance.

**Learning outcomes:** After completing this unit, the student will be able to

1. discuss various tasks related to manufacturing in machine vision (L2)
2. describe various machine vision applications related to industries (L2)

Text Books:

1. David Vernon, Machine vision –automated visual inspection and robot vision, Prentice Hall, 1991 (Units: I - IV)
2. Alexander Hornberg, Handbook of Machine Vision, Wiley, 2006. (Unit V)

Reference Books:

1. Rafael C. Gonzales, Richard.E.Woods, Digital Image Processing, Pearson Education, 2008
2. Alexander Hornberg, Handbook of Machine and Computer Vision, 2nd Edition, Wiley,

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2022-23**

| S.NO | ROLL NO | NAME              | BRANCH            | YEAR | VALUE ADDED COURSE |
|------|---------|-------------------|-------------------|------|--------------------|
| 1    | 2204567 | ABHISHEK KUMAR    | B.Tech ME         | 2nd  | Vision Robotics    |
| 2    | 2204568 | HARISH KUMAR      | B.Tech ME         | 2nd  | Vision Robotics    |
| 3    | 2204569 | LITON HOSSAIN     | B.Tech ME         | 2nd  | Vision Robotics    |
| 4    | 2204570 | SACHIN KUMAR      | B.Tech ME         | 2nd  | Vision Robotics    |
| 5    | 2204571 | SHAHZAB ALLAHI    | B.Tech ME         | 2nd  | Vision Robotics    |
| 6    | 2204572 | VISHAL KUMAR      | B.Tech ME         | 2nd  | Vision Robotics    |
| 7    | 2105108 | ABRAR NAZIR SHAH  | B.tech CIVIL leet | 3rd  | Vision Robotics    |
| 8    | 2105109 | ADNAN HUSSAIN     | B.tech CIVIL leet | 3rd  | Vision Robotics    |
| 9    | 2105110 | AMIT KUMAR        | B.tech CIVIL leet | 3rd  | Vision Robotics    |
| 10   | 2105111 | HAAFIZ JAMAL      | B.tech CIVIL leet | 3rd  | Vision Robotics    |
| 11   | 2105112 | HUZOOR ALI        | B.tech CIVIL leet | 3rd  | Vision Robotics    |
| 12   | 2105113 | SHAILZA KUMARI    | B.tech CIVIL leet | 3rd  | Vision Robotics    |
| 13   | 2105114 | WASEEM HASSAN     | B.tech CIVIL leet | 3rd  | Vision Robotics    |
| 14   | 2005333 | NISHANT RAHMAN    | B.tech CIVIL leet | 4th  | Vision Robotics    |
| 15   | 2005334 | MOHAMMAD ILAYAS   | B.tech CIVIL leet | 4th  | Vision Robotics    |
| 16   | 2005338 | SABEENA NAZIR     | B.tech CIVIL leet | 4th  | Vision Robotics    |
| 17   | 2028561 | MOHD IQBAL SHEIKH | B.tech CIVIL leet | 4th  | Vision Robotics    |
| 18   | 1906442 | PRERNA SHARMA     | B.Tech ME         | 4th  | Vision Robotics    |
| 19   | 1906444 | SHEKHAR           | B.Tech ME         | 4th  | Vision Robotics    |

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OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

Academic Year 2022-23

Activity organized Report

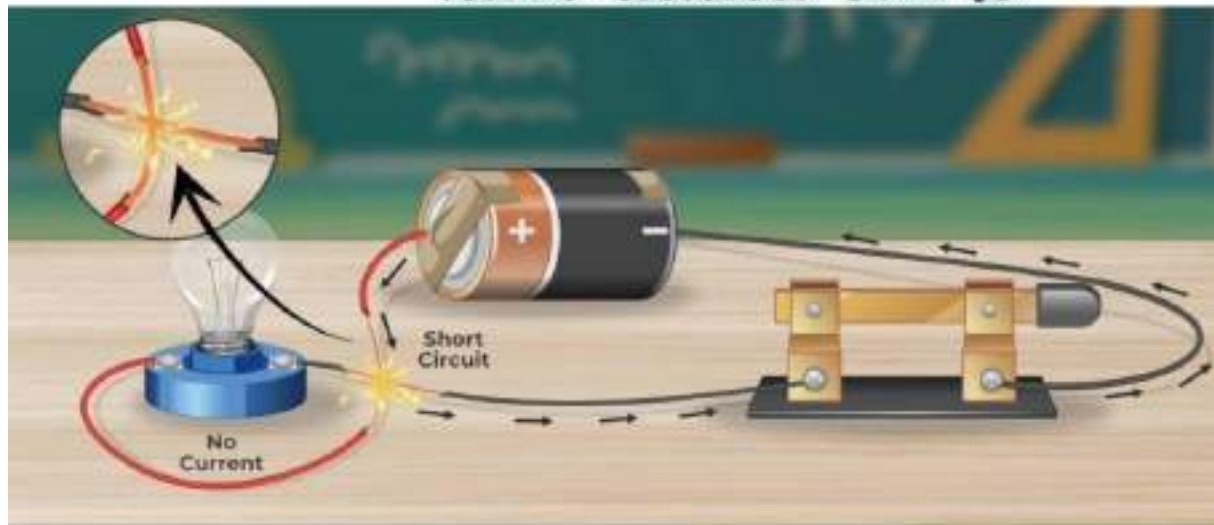
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|                               |                                                                                                                                                                                                                                                                                                                      |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                   |
| Title of Activity             | SIMULATION OF ELECTRIC CIRCUITS                                                                                                                                                                                                                                                                                      |
| Programme                     | B.Tech EE,M.tech EE                                                                                                                                                                                                                                                                                                  |
| Date of Commencement          | 04.8.2022                                                                                                                                                                                                                                                                                                            |
| Date of Completion            | 10.11.2022                                                                                                                                                                                                                                                                                                           |
| Place of activity             | D003                                                                                                                                                                                                                                                                                                                 |
| No of participants Enrolled   | 20                                                                                                                                                                                                                                                                                                                   |
| No of participants completed  | 18                                                                                                                                                                                                                                                                                                                   |
| Course Coordinator and Expert | BALJIT KAUR                                                                                                                                                                                                                                                                                                          |
| Summary of activity           | The value added course for the odd Semester During the Academic Year 2022-23 was Successfully Organized .The Course On “SIMULATION OF ELECTRIC CIRCUIT” was covered .It Was aimed at various course students to understand simulation .A total of 20 students registered for the course and 18 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                      |

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## *Simulation of Electric Circuits* *value added course*



*Commencement from:- 4/8/2022*

*Coordinator:- Baljit Kaur*

*Department of Electrical Engineering*

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ROPAR

IET/DEPT-~~EE~~-1165

Date: 4/8/2022

PRINCIPAL  
IET BHADDAL  
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**Permission For Conducting value added course and allocate faculty member for same**

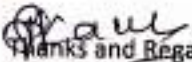
It is to bring to your kind notice that following value added course is finalized For academic Year 2022-23. The details of value added Course is as follow

| S.no | Name of Value Added Course      | Class                   | Contact Hrs | Date of Commencement | Expert      |
|------|---------------------------------|-------------------------|-------------|----------------------|-------------|
| 1    | SIMULATION OF ELECTRIC CIRCUITS | B.Tech EE,<br>M.tech EE | 30/45       | 4.8.2022             | Baljit kaur |
|      |                                 |                         |             |                      |             |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

Course co-ordinator

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)







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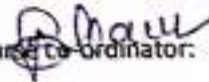
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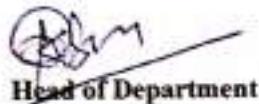
DATE 4/8/2022

## NOTICE

It is for the information of all students of - That EE department is conducting value added course entitled - **SIMULATION OF ELECTRIC CIRCUITS** from -4/08/2022 .The Course is scheduled for —45 hrs duration.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

  
Head of Department

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Dept of EE

2022-23

| DURATION 3HR |                   | ATTENDANCE SHEET FOR VALUE ADDED COURSES       |          |          |          |       |       |       |        |       |       |      |       |        |       |       |                                                                                     |  |  |  |  |  |  |  |
|--------------|-------------------|------------------------------------------------|----------|----------|----------|-------|-------|-------|--------|-------|-------|------|-------|--------|-------|-------|-------------------------------------------------------------------------------------|--|--|--|--|--|--|--|
|              |                   | Name Of Course SIMULATION OF ELECTRIC CIRCUITS |          |          |          |       |       |       |        |       |       |      |       |        |       |       | Course Duration 45hrs                                                               |  |  |  |  |  |  |  |
| S.no         | Name              | 4th aug                                        | 11th aug | 18th aug | 25th aug | 1-Sep | 8-Sep | ##### | 22-Sep | ##### | 6-Oct | #### | ##### | 27-Oct | 3-Nov | ##### | SIGNATURE                                                                           |  |  |  |  |  |  |  |
| 1            | GURWINDER SINGH   | 1                                              | 2        | 3        | 4        | 5     | 6     | 7     | 8      | 9     | 10    | 11   | 12    | 13     | 14    | ab    |  |  |  |  |  |  |  |  |
| 2            | JASPREET SINGH    | 1                                              | 2        | 3        | ab       | 4     | 5     | 6     | ab     | 7     | 8     | 9    | ab    | 10     | 11    | 12    |  |  |  |  |  |  |  |  |
| 3            | MANOJ KUMAR       | 1                                              | 2        | 3        | 4        | ab    | ab    | 5     | 6      | 7     | 8     | ab   | 9     | 10     | 11    | 12    |  |  |  |  |  |  |  |  |
| 4            | MANPREET SINGH    | ab                                             | ab       | 1        | 2        | 3     | 4     | 5     | 6      | ab    | 7     | 8    | 9     | ab     | 10    | 11    | Manpreet Singh                                                                      |  |  |  |  |  |  |  |
| 5            | SUMAN BARAI       | 1                                              | 2        | ab       | 3        | 4     | 5     | ab    | 6      | 7     | ab    | 8    | 9     | 10     | ab    | 11    | Suman Barai                                                                         |  |  |  |  |  |  |  |
| 6            | SURAJ RAKESH      | 1                                              | 2        | 3        | 4        | 5     | 6     | 7     | 8      | 9     | 10    | 11   | 12    | 13     | 14    | ab    | Suraj Rakesh                                                                        |  |  |  |  |  |  |  |
| 7            | SHOWKAT JAVAID    | 1                                              | 2        | 3        | ab       | 4     | 5     | 6     | ab     | 7     | 8     | 9    | ab    | 10     | 11    | 12    | Showkat                                                                             |  |  |  |  |  |  |  |
| 8            | SUHAIL MUSHTAQ    | 1                                              | 2        | 3        | 4        | ab    | ab    | 5     | 6      | 7     | 8     | ab   | 9     | 10     | 11    | 12    | Suhail Mushtaq                                                                      |  |  |  |  |  |  |  |
| 9            | JAGDEEP SINGH     | ab                                             | ab       | 1        | 2        | 3     | 4     | 5     | 6      | ab    | 7     | 8    | 9     | ab     | 10    | 11    | Jagdeep Singh                                                                       |  |  |  |  |  |  |  |
| 10           | MUNISSH RANA      | 1                                              | 2        | ab       | 3        | 4     | 5     | ab    | 6      | 7     | ab    | 8    | 9     | 10     | ab    | 11    | Munish Rana                                                                         |  |  |  |  |  |  |  |
| 11           | PAWAN KUMAR       | 1                                              | 2        | 3        | 4        | ab    | ab    | 5     | 6      | 7     | 8     | ab   | 9     | 10     | 11    | 12    | Pawan Kumar                                                                         |  |  |  |  |  |  |  |
| 12           | SAHIL ANSARI      | ab                                             | ab       | 1        | 2        | 3     | 4     | 5     | 6      | ab    | 7     | 8    | 9     | ab     | 10    | 11    | Sahil Ansari                                                                        |  |  |  |  |  |  |  |
| 13           | TARANVIR SINGH    | 1                                              | 2        | ab       | 3        | 4     | 5     | ab    | 6      | 7     | ab    | 8    | 9     | 10     | ab    | 11    | Taranvir Singh                                                                      |  |  |  |  |  |  |  |
| 14           | SATWINDER SINGH   | 1                                              | 2        | 3        | 4        | 5     | 6     | 7     | 8      | 9     | 10    | 11   | 12    | 13     | 14    | ab    | Satwinder Singh                                                                     |  |  |  |  |  |  |  |
| 15           | AAMIR MAJEED WANI | 1                                              | 2        | 3        | ab       | 4     | 5     | 6     | ab     | 7     | 8     | 9    | ab    | 10     | 11    | 12    | Aamir Majeed Wani                                                                   |  |  |  |  |  |  |  |
| 16           | AMAN              | ab                                             | ab       | 1        | 2        | 3     | 4     | 5     | 6      | ab    | 7     | 8    | 9     | ab     | 10    | 11    | Amn                                                                                 |  |  |  |  |  |  |  |
| 17           | FIZA JAN          | 1                                              | 2        | ab       | 3        | 4     | 5     | ab    | 6      | 7     | ab    | 8    | 9     | 10     | ab    | 11    | Fiza Jan                                                                            |  |  |  |  |  |  |  |
| 18           | SHAHNAWAZ GUL     | 1                                              | 2        | 3        | 4        | ab    | ab    | 5     | 6      | 7     | 8     | ab   | 9     | 10     | 11    | 12    | Shahnawaz Gul                                                                       |  |  |  |  |  |  |  |
| 19           | SUKHJOT SINGH     | ab                                             | ab       | 1        | 2        | 3     | 4     | 5     | 6      | ab    | 7     | 8    | 9     | ab     | 10    | 11    | Sukhjot Singh                                                                       |  |  |  |  |  |  |  |

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# SIMULATION OF ELECTRIC CIRCUITS

## Course objectives

1. Knowledge of modeling and simulation of electronic circuit and devices for low and high frequencies;
2. Ability to apply knowledge of electromagnetism in practical situations
3. Ability to search and analyze information from different bibliographic sources
4. Ability to work in a team to solve different technological and experimental challenges
5. Ability to initiate and manage personal and team **projects**

## Course content

CHAPTER 1: Introduction, History

CHAPTER 2 Diport parameters

CHAPTER 3 Electromagnetic propagation Propagation equations for various media, free space and guided; Planar circuits

CHAPTER 4: Models and methods Momentum methods; Finite element and finite differences in frequency and time domains; EFIE and MFIE; TLM formalism; WCIP method;

Software presentation (ORCAD, SPICE, CADANCE, APLAC, SONET, NEC, HFSS);

Optimization methods.

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2022-23**

| S.NO | ROLL NO | NAME            | BRANCH    | YEAR | VALUE ADDED COURSE              |
|------|---------|-----------------|-----------|------|---------------------------------|
| 1    | 2105121 | GURWINDER SINGH | B.TECH EE | 3rd  | SIMULATION OF ELECTRIC CIRCUITS |
| 2    | 2105122 | JASPREET SINGH  | B.TECH EE | 3rd  | SIMULATION OF ELECTRIC CIRCUITS |
| 3    | 2105123 | MANOJ KUMAR     | B.TECH EE | 3rd  | SIMULATION OF ELECTRIC CIRCUITS |
| 4    | 2105124 | MANPREET SINGH  | B.TECH EE | 3rd  | SIMULATION OF ELECTRIC CIRCUITS |
| 5    | 2204564 | SUMAN BARAI     | B.TECH EE | 3rd  | SIMULATION OF ELECTRIC CIRCUITS |
| 6    | 2204565 | SURAJ RAKESH    | B.TECH EE | 3rd  | SIMULATION OF ELECTRIC CIRCUITS |
| 7    | 2204561 | SHOWKAT JAVAID  | B.TECH EE | 3rd  | SIMULATION OF ELECTRIC CIRCUITS |
| 8    | 2204563 | SUHAIL MUSHTAQ  | B.TECH EE | 3rd  | SIMULATION OF ELECTRIC CIRCUITS |
| 9    | 2204448 | JAGDEEP SINGH   | B.TECH EE | 3rd  | SIMULATION OF ELECTRIC CIRCUITS |
| 10   | 2204449 | MUNISSH RANA    | B.TECH EE | 3rd  | SIMULATION OF ELECTRIC CIRCUITS |
| 11   | 2204450 | PAWAN KUMAR     | B.TECH EE | 3rd  | SIMULATION OF ELECTRIC CIRCUITS |
| 12   | 2204451 | SAHIL ANSARI    | B.TECH EE | 3rd  | SIMULATION OF ELECTRIC CIRCUITS |
| 13   | 2204452 | TARANVIR SINGH  | B.TECH EE | 3rd  | SIMULATION OF ELECTRIC CIRCUITS |
| 14   | 2105129 | SATWINDER SINGH | B.TECH EE | 3rd  | SIMULATION OF ELECTRIC          |

|    |         |                      |                |     |                                       |
|----|---------|----------------------|----------------|-----|---------------------------------------|
|    |         |                      |                |     | CIRCUITS                              |
| 15 | 2105117 | AAMIR MAJEED<br>WANI | B-TECH EE LEET | 3rd | SIMULATION OF<br>ELECTRIC<br>CIRCUITS |
| 16 | 2105118 | AMAN                 | B-TECH EE LEET | 3rd | SIMULATION OF<br>ELECTRIC<br>CIRCUITS |
| 17 | 2105119 | FIZA JAN             | B-TECH EE LEET | 3rd | SIMULATION OF<br>ELECTRIC<br>CIRCUITS |
| 18 | 2105131 | SHAHNAWAZ<br>GUL     | B-TECH EE LEET | 3rd | SIMULATION OF<br>ELECTRIC<br>CIRCUITS |
| 19 | 2105132 | SUKHJOT SINGH        | B-TECH EE LEET | 3rd | SIMULATION OF<br>ELECTRIC<br>CIRCUITS |

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# IETBHADDAL

TECHNICAL  
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OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**



Academic Year 2022-23

Activity organized Report

Date : 29.04.2023

|                               |                                                                                                                                                                                                                                                                                                                           |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                        |
| Title of Activity             | KNOWLEDGE MANAGEMENT                                                                                                                                                                                                                                                                                                      |
| Programme                     | B.Tech CSE,EE,ME,CIVIL                                                                                                                                                                                                                                                                                                    |
| Date of Commencement          | 14.1.2023                                                                                                                                                                                                                                                                                                                 |
| Date of Completion            | 29.04.2023                                                                                                                                                                                                                                                                                                                |
| Place of activity             | C BLOCK SEMINAR HALL                                                                                                                                                                                                                                                                                                      |
| No of participants Enrolled   | 22                                                                                                                                                                                                                                                                                                                        |
| No of participants completed  | 18                                                                                                                                                                                                                                                                                                                        |
| Course Coordinator and Expert | DR VIJAY                                                                                                                                                                                                                                                                                                                  |
| Summary of activity           | The value added course for the Even Semester During the Academic Year 2022-23 was Successfully Organized .The Course On “KNOWLEDGE MANAGEMENT ” was covered .It Was aimed at various course students to understand how to manage Knowledge .A total of 22 students registered for the course and 18 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                           |

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*value added course*



*Commencement from:- 14/1/2023*

**Coordinator:- Dr. Vijay**

*Department of Applied Science*

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| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                       |                                     |      |      |     |      |      |      |     |      |      |      |                       |     |      |      |      |                    |
|------------------------------------------|-----------------------|-------------------------------------|------|------|-----|------|------|------|-----|------|------|------|-----------------------|-----|------|------|------|--------------------|
| S.no                                     | Name                  | Name Of Course KNOWLEDGE MANAGEMENT |      |      |     |      |      |      |     |      |      |      | Course Duration 45HRS |     |      |      |      | Total attendance % |
|                                          |                       | 14/1/23                             | 21/1 | 28/1 | 4/2 | 11/2 | 18/2 | 25/2 | 4/3 | 11/3 | 18/3 | 25/3 | 1/4                   | 8/4 | 15/4 | 22/4 | 29/4 |                    |
| 1                                        | NITISH KUMAR          | 1                                   | 2    | 3    | 4   | AB   | AB   | 5    | 6   | 7    | AB   | AB   | 8                     | 9   | 10   | 11   | AB   | <i>Nitish</i>      |
| 2                                        | RANDEEP SINGH         | 1                                   | 2    | 3    | AB  | 4    | 5    | AB   | AB  | 6    | 7    | 8    | 9                     | AB  | AB   | 10   | 11   | <i>Ran</i>         |
| 3                                        | RITIK KUMAR           | AB                                  | AB   | AB   | 1   | 2    | 3    | 4    | 5   | 6    | 7    | AB   | AB                    | 8   | 9    | 10   | 11   | <i>Rit</i>         |
| 4                                        | SAHIL MUZAFFAR        | 1                                   | 2    | AB   | AB  | 3    | 4    | 5    | AB  | AB   | 6    | 7    | 8                     | 9   | AB   | AB   | 10   | <i>Sahil</i>       |
| 5                                        | SHABIR AHMAD SHAH     | 1                                   | 2    | 3    | AB  | AB   | AB   | 4    | 5   | 6    | 7    | AB   | AB                    | 8   | 9    | 10   | 11   | <i>Shabir</i>      |
| 6                                        | SHOWKAT JAVAID        | 1                                   | 2    | 3    | 4   | AB   | AB   | 5    | 6   | 7    | AB   | AB   | 8                     | 9   | 10   | 11   | AB   | <i>Showkat</i>     |
| 7                                        | SOURAV SHARMA         | 1                                   | 2    | 3    | AB  | 4    | 5    | AB   | AB  | 6    | 7    | 8    | 9                     | AB  | AB   | 10   | 11   | <i>Sourav</i>      |
| 8                                        | HARDEEP SINGH         | AB                                  | AB   | AB   | 1   | 2    | 3    | 4    | 5   | 6    | 7    | AB   | AB                    | 8   | 9    | 10   | 11   | <i>Hardeep</i>     |
| 9                                        | SUNAINA               | 1                                   | 2    | AB   | AB  | 3    | 4    | 5    | AB  | AB   | 6    | 7    | 8                     | 9   | AB   | AB   | 10   | <i>Sunaina</i>     |
| 10                                       | YUVRAJ SINGH          | 1                                   | 2    | 3    | AB  | AB   | AB   | 4    | 5   | 6    | 7    | AB   | AB                    | 8   | 9    | 10   | 11   | <i>Y Singh</i>     |
| 11                                       | SAKIB AHMAD BHAT      | AB                                  | AB   | AB   | 1   | 2    | 3    | 4    | 5   | 6    | 7    | AB   | AB                    | 8   | 9    | 10   | 11   | <i>S. Ak Bhat</i>  |
| 12                                       | SANTOSH VYAS          | 1                                   | 2    | AB   | AB  | 3    | 4    | 5    | AB  | AB   | 6    | 7    | 8                     | 9   | AB   | AB   | 10   | <i>Santosh</i>     |
| 13                                       | SATPAL                | 1                                   | 2    | 3    | AB  | AB   | AB   | 4    | 5   | 6    | 7    | AB   | AB                    | 8   | 9    | 10   | 11   | <i>Satpal</i>      |
| 14                                       | SAYED MAQSOOD HUSSAIN | 1                                   | 2    | 3    | 4   | AB   | AB   | 5    | 6   | 7    | AB   | AB   | 8                     | 9   | 10   | 11   | AB   | <i>Sayed</i>       |
| 15                                       | SHYAM ASGAR           | 1                                   | 2    | 3    | AB  | 4    | 5    | AB   | AB  | 6    | 7    | 8    | 9                     | AB  | AB   | 10   | 11   | <i>Shyam</i>       |
| 16                                       | SUBREENA AKHTER       | AB                                  | AB   | AB   | 1   | 2    | 3    | 4    | 5   | 6    | 7    | AB   | AB                    | 8   | 9    | 10   | 11   | <i>Subreena</i>    |
| 17                                       | TOUKIR HOSSAIN        | 1                                   | 2    | AB   | AB  | 3    | 4    | 5    | AB  | AB   | 6    | 7    | 8                     | 9   | AB   | AB   | 10   | <i>Toukir</i>      |
| 18                                       | AMIT KUMAR            | 1                                   | 2    | 3    | AB  | AB   | AB   | 4    | 5   | 6    | 7    | AB   | AB                    | 8   | 9    | 10   | 11   | <i>Amit</i>        |
| 19                                       | HAAFIZ ZAMAL          | AB                                  | AB   | AB   | 1   | 2    | 3    | 4    | 5   | 6    | 7    | AB   | AB                    | 8   | 9    | 10   | 11   | <i>Haafiz</i>      |
| 20                                       | HAZOOOR ALI           | 1                                   | 2    | AB   | AB  | 3    | 4    | 5    | AB  | AB   | 6    | 7    | 8                     | 9   | AB   | AB   | 10   | <i>Hazoor</i>      |
| 21                                       | SHAILZA KUMARI        | 1                                   | 2    | AB   | AB  | 3    | 4    | 5    | AB  | AB   | 6    | 7    | 8                     | 9   | AB   | AB   | 10   | <i>Shailza</i>     |

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# IET BHADDAL

## TECHNICAL CAMPUS ROPAR

Campus: Bhaddal, PO Mianpur, Distt. Ropar, Punjab-140108 (India)  
UGC approved (2f & 12B) | Affiliated to IKG-PTU (Jalandhar)

IET/DEPT AS-129

Date: 14/1/2023

PRINCIPAL  
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ROPAR

**Permission For Conducting value added course and allocate faculty member for same**

It is to bring to your kind notice that following value added course is finalized For academic Year 2022-23. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class                     | Contact Hrs | Date of Commencement | Expert   |
|------|----------------------------|---------------------------|-------------|----------------------|----------|
| 1    | KNOWLEDGE MANAGEMENT       | B.Tech<br>CIVIL,EE,ME,CSE | 30/45       | 14.1.2023            | Dr Vijay |
|      |                            |                           |             |                      |          |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

Thanks and Regards

Course co-ordinator

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Email : info@ietbhaddal.edu.in | Website: www.ietbhaddal.edu.in



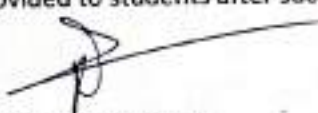
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DATE 14/1/2023

## NOTICE

It is for the information of all students of - That AS department is conducting value added course entitled - KNOWLEDGE MANAGEMENT from -14/01/2023 .The Course is scheduled for —45 hrs duration.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

Head of Department

  
Cc: Principal ( For Kind information please)

Head Of all Departments ( For Information)

IQAC

ALL the notice boards

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## KNOWLEDGE MANAGEMENT

### Objectives:

To make the students realize the importance of capturing knowledge elements and its structures application as a competitive advantage to business.

### Unit I

Introduction to KM, History of KM, Importance of KM, Information Management to Knowledge Management, K M Cycle, Industrial Economy to Knowledge Economy

### Unit II

Mechanics of Knowledge Management–Tools and Technologies, Communities of Practice and Knowledge conversion, The knowledge Management Matrix.

### Unit III

Social Nature of Knowledge, Social Network Analysis, Obstacles to knowledge sharing, Organizational learning & Social Capital. Knowledge Application – Individual level, Group level & Organization Level.

### Unit IV

KM Strategy, Knowledge audit, GAP Analysis, Road Map, KM Metrics, Balance ScoreCard. KM Tools – Knowledge Capture & Creation tools, Knowledge sharing & Dissemination Tools, Knowledge Acquisition & Application tools.

### Unit V

Km Team–Roles & Responsibilities, Political issues in KM, Ethics in KM, Strategies issues in Knowledge Management, Future of Knowledge Management

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2022-23**

| S.NO | ROLL NO | NAME                  | BRANCH       | YEAR | VALUE ADDED COURSE   |
|------|---------|-----------------------|--------------|------|----------------------|
| 1    | 2204556 | NITISH KUMAR          | B.Tech EE    | 2ND  | KNOWLEDGE MANAGEMENT |
| 2    | 2204557 | RANDEEP SINGH         | B.Tech EE    | 2ND  | KNOWLEDGE MANAGEMENT |
| 3    | 2204558 | RITIK KUMAR           | B.Tech EE    | 2ND  | KNOWLEDGE MANAGEMENT |
| 4    | 2204559 | SAHIL MUZAFFAR        | B.Tech EE    | 2ND  | KNOWLEDGE MANAGEMENT |
| 5    | 2204560 | SHABIR AHMAD SHAH     | B.Tech EE    | 2ND  | KNOWLEDGE MANAGEMENT |
| 6    | 2204561 | SHOWKAT JAVAID        | B.Tech EE    | 2ND  | KNOWLEDGE MANAGEMENT |
| 7    | 2204562 | SOURAV SHARMA         | B.Tech EE    | 2ND  | KNOWLEDGE MANAGEMENT |
| 8    | 2204546 | HARDEEP SINGH         | B.Tech CSE   | 2ND  | KNOWLEDGE MANAGEMENT |
| 9    | 2204549 | SUNAINA               | B.Tech CSE   | 2ND  | KNOWLEDGE MANAGEMENT |
| 10   | 2204550 | YUVRAJ SINGH          | B.Tech CSE   | 2ND  | KNOWLEDGE MANAGEMENT |
| 11   | 2204549 | SAKIB AHMAD BHAT      | B.Tech CIVIL | 2ND  | KNOWLEDGE MANAGEMENT |
| 12   | 2204540 | SANTOSH VYAS          | B.Tech CIVIL | 2ND  | KNOWLEDGE MANAGEMENT |
| 13   | 2204541 | SATPAL                | B.Tech CIVIL | 2ND  | KNOWLEDGE MANAGEMENT |
| 14   | 2204544 | SAYED MAQSOOD HUSSAIN | B.Tech CIVIL | 2ND  | KNOWLEDGE MANAGEMENT |
| 15   | 2204542 | SHYAM ASGAR           | B.Tech CIVIL | 2ND  | KNOWLEDGE MANAGEMENT |
| 16   | 2204543 | SUBREENA AKHTER       | B.Tech CIVIL | 2ND  | KNOWLEDGE MANAGEMENT |
| 17   | 2105107 | TOUKIR HOSSAIN        | B.Tech ME    | 3RD  | KNOWLEDGE MANAGEMENT |
| 18   | 2105110 | AMIT KUMAR            | B.Tech CIVIL | 3RD  | KNOWLEDGE MANAGEMENT |
| 19   | 2105111 | HAAFIZ ZAMAL          | B.Tech CIVIL | 3RD  | KNOWLEDGE MANAGEMENT |
| 20   | 2105112 | HAZOOR ALI            | B.Tech CIVIL | 3RD  | KNOWLEDGE            |



|    |         |                |              |     |                      |
|----|---------|----------------|--------------|-----|----------------------|
|    |         |                |              |     | MANAGEMENT           |
| 21 | 2105113 | SHAILZA KUMARI | B.Tech CIVIL | 3RD | KNOWLEDGE MANAGEMENT |

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# IETBHADDAL

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Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

## Academic Year 2022-23

### Activity organized Report

Date : 20.04.2023

|                               |                                                                                                                                                                                                                                                                                                |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                             |
| Title of Activity             | Webpreneurship                                                                                                                                                                                                                                                                                 |
| Programme                     | MBA                                                                                                                                                                                                                                                                                            |
| Date of Commencement          | 12.1.2023                                                                                                                                                                                                                                                                                      |
| Date of Completion            | 20.04.2023                                                                                                                                                                                                                                                                                     |
| Place of activity             | F block seminar hall                                                                                                                                                                                                                                                                           |
| No of participants Enrolled   | 20                                                                                                                                                                                                                                                                                             |
| No of participants completed  | 18                                                                                                                                                                                                                                                                                             |
| Course Coordinator and Expert | Manpreet kaur                                                                                                                                                                                                                                                                                  |
| Summary of activity           | The value added course for the Even Semester During the Academic Year 2022-23 was Successfully Organized .The Course On “WEB PRENEURSHIP” was covered .It Was aimed at various course students to understand it .A total of 20 students registered for the course and 18 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                |

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## WEBPRENEURSHIP

...Raising the next generation of tech entrepreneurs.

value added course



Mark Zuckerberg  
CEO, Facebook



Linda Ikei  
Founder  
lindaiki.com



Bill Gates  
Co Founder  
Microsoft



Jason Maza  
Founder  
IrokeTV



YOU

Commencement COORDINATOR

from:-

12/1/2023

:-Manpreet  
Kaur

Department of MBA

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IET/DEPT-MBA 176

Date: 17/1/2023

PRINCIPAL  
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Permission For Conducting value added course and allocate faculty member for same

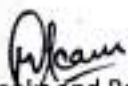
It is to bring to your kind notice that following value added course is finalized For academic Year 2022-23. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class | Contact Hrs | Date of Commencement | Expert        |
|------|----------------------------|-------|-------------|----------------------|---------------|
| 1    | Webpreneurship             | MBA   | 30/45       | 12.1.2023            | MANPREET KAUR |
|      |                            |       |             |                      |               |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

Course co-ordinator

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email: [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)







# IET BHADDAL

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Campus: Bhaddal, PO Mianpur, Distt. Ropar, Punjab-140108 (India)  
UGC approved (21 & 12B) | Affiliated to IKG-PTU (Jalandhar)

18T NAC/MBA/77

DATE 12/1/2023

## NOTICE

It is for the information of all students of - That

**MBA**

department is conducting value

added course entitled **WEBPRENEURSHIP** - from -12/01/2023 .The Course is scheduled for ---45 hrs duration.

The value added course aims at value addition and holistic development of the participants, Interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

Course co-ordinator:

Head of Department

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Cc : Principal ( For Kind information please)

Head Of all Departments ( For Information)

IQAC

ALL the notice boards

Phone no: +91-1881-244777, 244606, Fax: 01881-244749

Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)



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Defi of MBA

2022-23

| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                  |                                |        |        |       |       |        |        |     |       |       |       |       |       |        |        |                |
|------------------------------------------|------------------|--------------------------------|--------|--------|-------|-------|--------|--------|-----|-------|-------|-------|-------|-------|--------|--------|----------------|
| DURATION 3HR                             |                  | Name of Course: Webpreneurship |        |        |       |       |        |        |     |       |       |       |       |       |        |        |                |
| S.no                                     | Name             | 12-Jan                         | 19-Jan | 26-Jan | 2-Feb | 9-Feb | 16-Feb | 23-Feb | ### | 9-Mar | ##### | ##### | ##### | 6-Apr | 13-Apr | 20-Apr | SIGNATURE      |
| 1                                        | AMIT KUMAR       | 1                              | 2      | 3      | ab    | 4     | 5      | ab     | 6   | ab    | 7     | 8     | 9     | ab    | 10     | 11     | Amit           |
| 2                                        | ANNU             | 1                              | 2      | ab     | 3     | ab    | 4      | 5      | ab  | 6     | 7     | ab    | 8     | 9     | 10     | 11     | Annu           |
| 3                                        | ARSHVIR KAU      | ab                             | 1      | 2      | 3     | 4     | ab     | 5      | 6   | ab    | 7     | 8     | ab    | 9     | 10     | 11     | Arshvir        |
| 4                                        | BAZILA MUSHTAQ   | 1                              | 2      | 3      | 4     | 5     | ab     | ab     | 6   | 7     | 8     | ab    | 9     | 10    | ab     | 11     | Bazila Mushtaq |
| 5                                        | DEEPALI          | 1                              | 2      | 3      | ab    | 4     | 5      | ab     | 6   | ab    | 7     | 8     | 9     | ab    | 10     | 11     | Deepali        |
| 6                                        | FARHAN MAQBOOL   | 1                              | 2      | ab     | 3     | ab    | 4      | 5      | ab  | 6     | 7     | ab    | 8     | 9     | 10     | 11     | Farhan Maqbool |
| 7                                        | GAGANDEEP        | ab                             | 1      | 2      | 3     | 4     | ab     | 5      | 6   | ab    | 7     | 8     | ab    | 9     | 10     | 11     | Gagandeep      |
| 8                                        | HARMANDEEP SINGH | 1                              | 2      | 3      | 4     | 5     | ab     | ab     | 6   | 7     | 8     | ab    | 9     | 10    | ab     | 11     | Harman Singh   |
| 9                                        | HARMANPREET KAUR | 1                              | 2      | ab     | 3     | ab    | 4      | 5      | ab  | 6     | 7     | ab    | 8     | 9     | 10     | 11     | H.Kaur         |
| 10                                       | HARSHDEEP KAUR   | ab                             | 1      | 2      | 3     | 4     | ab     | 5      | 6   | ab    | 7     | 8     | ab    | 9     | 10     | 11     | H.Kaur         |
| 11                                       | IMTIYAZ AKRAM    | 1                              | 2      | 3      | 4     | 5     | ab     | ab     | 6   | 7     | 8     | ab    | 9     | 10    | ab     | 11     | Imtiyaz        |
| 12                                       | JASHANPREET KAUR | registered                     |        |        |       |       |        |        |     |       |       |       |       |       |        |        | Jashanpreet K. |
| 13                                       | KAMALJEET KAUR   | ab                             | 1      | 2      | 3     | 4     | ab     | 5      | 6   | ab    | 7     | 8     | ab    | 9     | 10     | 11     | Kamaljeet      |
| 14                                       | KAMALPREET KAUR  | 1                              | 2      | 3      | 4     | 5     | ab     | ab     | 6   | 7     | 8     | ab    | 9     | 10    | ab     | 11     | Kamalpreet     |
| 15                                       | KAMALPREET SINGH | 1                              | 2      | 3      | ab    | 4     | 5      | ab     | 6   | ab    | 7     | 8     | 9     | ab    | 10     | 11     | Kamal Singh    |
| 16                                       | KRISHMA KUMARI   | 1                              | 2      | ab     | 3     | ab    | 4      | 5      | ab  | 6     | 7     | ab    | 8     | 9     | 10     | 11     | Krishma Kumari |
| 17                                       | LOVELEEN KAUR    | 1                              | 2      | 3      | ab    | 4     | 5      | ab     | 6   | ab    | 7     | 8     | 9     | ab    | 10     | 11     | Loveleen K.    |
| 18                                       | MAGANPREET SINGH | 1                              | 2      | ab     | 3     | ab    | 4      | 5      | ab  | 6     | 7     | ab    | 8     | 9     | 10     | 11     | Magan Singh    |
| 19                                       | MANDEEP SINGH    | registered                     |        |        |       |       |        |        |     |       |       |       |       |       |        |        | Mandeep Singh  |
| 20                                       | MANJU KUMARI     | 1                              | 2      | 3      | 4     | 5     | ab     | ab     | 6   | 7     | 8     | ab    | 9     | 10    | ab     | 11     | Manju Kumari   |

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# WEBPRENEURSHIP

## Course Objectives:

- To provide the Knowledge of Entrepreneurship
- To learn how to develop a business plan and marketing a product or service
- To develop the skills of Business idea and leadership
- To aware the issues Setting up the Organization
- To make students to understand the different dimensions of entrepreneurship.

## Course Outcome:

Upon completion of the course, the student will be able to demonstrate knowledge of the following topics:

- Understanding the dynamic role of entrepreneurship and small businesses
- Organizing and Managing a Small Business
- Financial Planning and Control
- Forms of Ownership for Small Business
- Strategic Marketing Planning
- New Product or Service Development
- Business idea Creation

## Module 1

Nature and Importance of Entrepreneurship

- Nature and Development of Entrepreneurship (Early period, Middle period, Industrial period)
- Definition of Entrepreneur Today
- Entrepreneurial Decision Process
- Role of Entrepreneurship in Economic Development
- Intrapreneurship, Entrepreneurship, Entrepreneurial Careers and Education
- The Future of Entrepreneurship
- Entrepreneurship Concept and Industrial Backdrop

## Module 2

The Entrepreneurial and Intrapreneurial Mind

- The Entrepreneurial Process
- Identify and Evaluate the Opportunity
- Develop a Business Plan
- Determine the Resources Required
- Manage the Enterprise, Managerial versus Entrepreneurial Decision Making
- Causes for Interest in Intrapreneurship
- Corporate versus Intrapreneurial Culture
- Climate for Intrapreneurship
- Leadership Characteristics
- Establishing the Organization
- Factors affecting entrepreneurship — qualities of successful entrepreneurship.

## Module 3

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## Starting The Business - Business Idea & Innovation

- Business idea,
- Product Planning and Development Process,
- Establishing Evaluation Criteria, Idea Stage, Concept Stage Product Stage, Test Marketing Stage
- Creativity, Innovation and entrepreneurship,
- Barriers to creativity, techniques for improving the creative process
- Corporate entrepreneurship, causes, climate,

Intrapreneurial leadership characteristics, Establishing intrapreneurship in the organization

Text Book:

1. Robert D Hirich & Peters Irwin – Entrepreneurship - McGraw Hill

Reference Books:

1. Vasant Desai :- Dynamics of Entrepreneurial Development and Management, HPH
2. Mohanty – Fundamentals of Entrepreneurship, Prentice Hall of India
3. S Anil Kumar & Others – Entrepreneurship Development – New Age Publication
4. Nicholas Siropolis – Entrepreneurship & Small Business Management – All India Publication
5. Harvard Business Review on Entrepreneurship – Tata McGraw Hill

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2022-23**

| S.NO | ROLL NO | NAME             | BRANCH | YEAR | VALUE ADDED COURSE |
|------|---------|------------------|--------|------|--------------------|
| 1    | 2204458 | AMIT KUMAR       | MBA    | 2nd  | webprenuership     |
| 2    | 2204460 | ANNU             | MBA    | 2nd  | webprenuership     |
| 3    | 2204461 | ARSHVIR KAUR     | MBA    | 2nd  | webprenuership     |
| 4    | 2204462 | BAZILA MUSHTAQ   | MBA    | 2nd  | webprenuership     |
| 5    | 2204464 | DEEPALI          | MBA    | 2nd  | webprenuership     |
| 6    | 2204467 | FARHAN MAQBOOL   | MBA    | 2nd  | webprenuership     |
| 7    | 2204468 | GAGANDEEP        | MBA    | 2nd  | webprenuership     |
| 8    | 2204469 | HARMANDEEP SINGH | MBA    | 2nd  | webprenuership     |
| 9    | 2204470 | HARMANPREET KAUR | MBA    | 2nd  | webprenuership     |
| 10   | 2204471 | HARSHDEEP KAUR   | MBA    | 2nd  | webprenuership     |
| 11   | 2204472 | IMTIYAZ AKRAM    | MBA    | 2nd  | webprenuership     |
| 12   | 2105056 | JASHANPREET KAUR | MBA    | 1st  | webprenuership     |
| 13   | 2105057 | KAMALJEET KAUR   | MBA    | 1st  | webprenuership     |
| 14   | 2105058 | KAMALPREET KAUR  | MBA    | 1st  | webprenuership     |
| 15   | 2105059 | KAMALPREET SINGH | MBA    | 1st  | webprenuership     |
| 16   | 2105061 | KRISHMA KUMARI   | MBA    | 1st  | webprenuership     |
| 17   | 2105062 | LOVELEEN KAUR    | MBA    | 1st  | webprenuership     |
| 18   | 2105063 | MAGANPREET SINGH | MBA    | 1st  | webprenuership     |
| 19   | 2105064 | MANDEEP SINGH    | MBA    | 1st  | webprenuership     |
| 20   | 2105065 | MANJU KUMARI     | MBA    | 1st  | webprenuership     |

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# IETBHADDAL

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OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

**Academic Year 2022-23**

**Activity organized Report**

**Date : 01.05.2023**

|                                      |                                                                                                                                                                                                                                                                                                            |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name of activity</b>              | Value Added Course                                                                                                                                                                                                                                                                                         |
| <b>Title of Activity</b>             | ETHICS OF DATA SCIENCE                                                                                                                                                                                                                                                                                     |
| <b>Programme</b>                     | B.Tech CSE,MCA,M.Tech CSE                                                                                                                                                                                                                                                                                  |
| <b>Date of Commencement</b>          | 23.1.2023                                                                                                                                                                                                                                                                                                  |
| <b>Date of Completion</b>            | 01.05.2023                                                                                                                                                                                                                                                                                                 |
| <b>Place of activity</b>             | B 109                                                                                                                                                                                                                                                                                                      |
| <b>No of participants Enrolled</b>   | 22                                                                                                                                                                                                                                                                                                         |
| <b>No of participants completed</b>  | 18                                                                                                                                                                                                                                                                                                         |
| <b>Course Coordinator and Expert</b> | Dr Pravneet kaur                                                                                                                                                                                                                                                                                           |
| <b>Summary of activity</b>           | The value added course for the Even Semester During the Academic Year 2022-23 was Successfully Organized .The Course On “ETHICS OF DATA SCIENCES” was covered .It was aimed at various course students to understand Ethics .A total of 22 students registered for the course and 18 completed the Course. |
|                                      |                                                                                                                                                                                                                                                                                                            |

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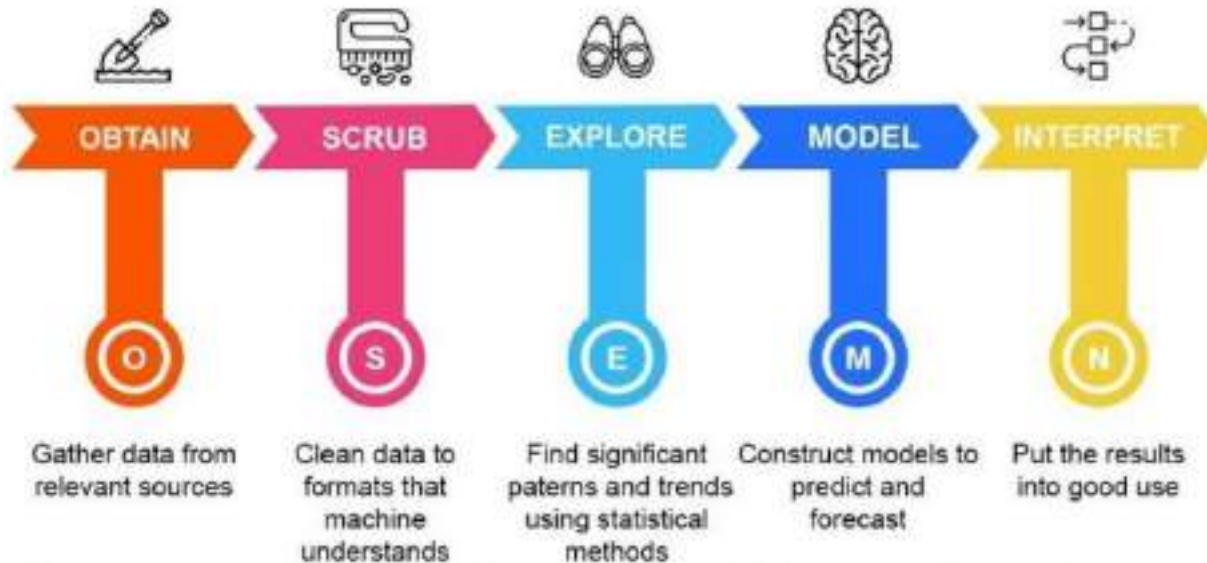
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## *Ethics of Data Science*

*value added  
course*

### DATA SCIENCE PROCESS



*Commencement from:-*

**23/01/2023**

*Coordinator:-*

**Dr. Pravneet**

*Department of Computer Science & Engineering*

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# IET BHADDAL

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**TECHNICAL  
CAMPUS  
ROPAR**

IET/CSE/ 235

Date : 23.1.2023

PRINCIPAL  
IET BHADDAL

Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2022-23. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class                           | Contact Hrs | Date of Commencement | Expert           |
|------|----------------------------|---------------------------------|-------------|----------------------|------------------|
| 1    | ETHICS OF DATA SCIENCE     | B.TECH<br>CSE,MCA,M.TECH<br>CSE | 30          | 23.1.2023            | DR PRAVNEET KAUR |
|      |                            |                                 |             |                      |                  |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

Thanks and Regards

Course co-ordinator



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ROPAR

IET/VAD/165

DATE 23/01/2023

## DEPARTMENT OF-APPLIED SCIENCE (IET)

### NOTICE

It is for the information of all students of - That <sup>CSE</sup>~~IET~~ department is conducting value added course entitled ETHICS OF DATA SCIENCE - from -23/01/2023 .The Course is scheduled for ---30 hrs duration.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 75% attendance

  
Course co-ordinator:

  
Head of Department

Cc : Principal ( For Kind information please)

Head Of all Departments ( For Information)

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Dept of CSB  
2022-23

| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                   |                                       |      |       |        |        |        |       |        |        |        |       |     |        |        |       |
|------------------------------------------|-------------------|---------------------------------------|------|-------|--------|--------|--------|-------|--------|--------|--------|-------|-----|--------|--------|-------|
| Sl. No                                   | Name              | Name Of Course ETHICS OF DATA SCIENCE |      |       |        |        |        |       |        |        |        |       |     |        |        |       |
|                                          |                   | 23/1                                  | 30/1 | 6-Feb | 13-Feb | 20-Feb | 27-Feb | 6-Mar | 13-Mar | 20-Mar | 27-Mar | 3-Apr | ### | 17-Apr | 24-Apr | 1-May |
| 1                                        | KIRAN             | 1                                     | 2    | 3     | AB     | 4      | 5      | AB    | 6      | 7      | 8      | AB    | 9   | 10     | AB     | 11    |
| 2                                        | KULVEER SINGH     | 1                                     | 2    | 3     | 4      | 5      | AB     | 6     | AB     | 7      | 8      | AB    | 9   | AB     | 10     | 11    |
| 3                                        | KUSHAL BHATWAL    | 1                                     | 2    | AB    | AB     | 3      | 4      | 5     | 6      | AB     | AB     | 7     | 8   | 9      | 10     | 11    |
| 4                                        | MANISHA DEVI      | 1                                     | AB   | 2     | 3      | AB     | 5      | 6     | 7      | 8      | 9      | 10    | AB  | AB     | 11     | 12    |
| 5                                        | PRINCEDEEP        | 1                                     | 2    | 3     | AB     | 4      | 5      | AB    | 6      | 7      | AB     | 8     | 9   | AB     | 10     | 11    |
| 6                                        | SHEIKH UMAMAR     | AB                                    | 1    | 2     | 3      | ab     | 4      | 5     | 6      | ab     | 7      | 8     | AB  | 9      | 10     | 11    |
| 7                                        | TENZIN TASHI      | 1                                     | 2    | 3     | AB     | 4      | 5      | AB    | 6      | 7      | 8      | AB    | 9   | 10     | AB     | 11    |
| 8                                        | ZOSANGZUALI       | 1                                     | 2    | 3     | 4      | 5      | AB     | 6     | AB     | 7      | 8      | AB    | 9   | AB     | 10     | 11    |
| 9                                        | MATESH KUMAR      | 1                                     | 2    | AB    | AB     | 3      | 4      | 5     | 6      | AB     | AB     | 7     | 8   | 9      | 10     | 11    |
| 10                                       | ROHAN GILL        | 1                                     | AB   | 2     | 3      | AB     | 5      | 6     | 7      | 8      | 9      | 10    | AB  | AB     | 11     | 12    |
| 11                                       | YASH CHAUHAN      | 1                                     | 2    | 3     | AB     | 4      | 5      | AB    | 6      | 7      | AB     | 8     | 9   | AB     | 10     | 11    |
| 12                                       | SHUBHAM           | AB                                    | 1    | 2     | 3      | ab     | 4      | 5     | 6      | ab     | 7      | 8     | AB  | 9      | 10     | 11    |
| 13                                       | ALAY PRATAP SINGH | 1                                     | 2    | AB    | AB     | 3      | 4      | 5     | 6      | AB     | AB     | 7     | 8   | 9      | 10     | 11    |
| 14                                       | BAVNHAB KOUNDAI   | 1                                     | AB   | 2     | 3      | AB     | 5      | 6     | 7      | 8      | 9      | 10    | AB  | AB     | 11     | 12    |
| 15                                       | GURVINDER SINGH   | 1                                     | 2    | 3     | AB     | 4      | 5      | AB    | 6      | 7      | AB     | 8     | 9   | AB     | 10     | 11    |
| 16                                       | MANU MINHAS       | AB                                    | 1    | 2     | 3      | ab     | 4      | 5     | 6      | ab     | 7      | 8     | AB  | 9      | 10     | 11    |
| 17                                       | NIKHIL RANA       | 1                                     | 2    | 3     | AB     | 4      | 5      | AB    | 6      | 7      | 8      | AB    | 9   | 10     | AB     | 11    |
| 18                                       | POOJA RANI        | 1                                     | 2    | 3     | 4      | 5      | AB     | 6     | AB     | 7      | 8      | AB    | 9   | AB     | 10     | 11    |
| 19                                       | VEER KAUR         | 1                                     | 2    | AB    | AB     | 3      | 4      | 5     | 6      | AB     | AB     | 7     | 8   | 9      | 10     | 11    |
| 20                                       | ABDUL MAJEED AK   | 1                                     | AB   | 2     | 3      | AB     | 5      | 6     | 7      | 8      | 9      | 10    | AB  | AB     | 11     | 12    |
| 21                                       | AKASHDEEP SINGH   | 1                                     | 2    | 3     | AB     | 4      | 5      | AB    | 6      | 7      | AB     | 8     | 9   | AB     | 10     | 11    |
| 22                                       | DEEPAK BAWA       | AB                                    | 1    | 2     | 3      | ab     | 4      | 5     | 6      | ab     | 7      | 8     | AB  | 9      | 10     | 11    |
| 23                                       | DEEPIKA           | 1                                     | 2    | 3     | AB     | 4      | 5      | AB    | 6      | 7      | 8      | AB    | 9   | 10     | AB     | 11    |

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# ETHICS OF DATA SCIENCES

## Module 1. Python Programming

Learning the basics of Python programming is essential for data scientists to manipulate and visualizing data. This section will cover the basic syntax, operators, strings, functions, and other essential details to help you analyse large amounts of data and manipulate them.

- Python Introduction and setting up the environment
- Python Basic Syntax and Data Types
- Operators in Python (e.g., Arithmetic, Logical, Bitwise)
- Strings in Python
- Lists
- Tuples
- Sets
- Dictionaries
- Python conditional statements (e.g., if, if-else, if-elif-else)
- Loops in Python (e.g., while, for, break, continue)
- Getting Started with HackerRank use cases and working on them
- List and Dictionaries comprehension
- Functions
- Anonymous Functions (Lambda)
- Generators
- Modules
- Exceptions and Error Handling
- Classes and Objects (OOPS) (including different types of methods, inheritance, polymorphism, operator overloading, overriding)
- Date and Time
- Regex (e.g., re.search(), re.compile(), re.find(), re.split())
- Files (including opening, closing, reading and writing files)
- APIs the Unsung Hero of the Connected World
- Python for Web Development – Flask
- Hands-On Projects (Web Scraping, Sending Automated Emails, Building a Virtual Assistant)

## Module 2. Data Analysis

Data analysis helps you in making informed decisions with data exploration and visualization using advanced tools. This section will cover the basics along with teaching you how to scrape data from websites using libraries like BeautifulSoup and handling and storing them in appropriate formats.

- Packages (Working on Numpy, Pandas, and Matplotlib)
- Web Scraping (learning about tools, libraries and ethical considerations)
- Exploratory data analysis (EDA) using Pandas and NumPy
- Data Visualization using Matplotlib, Seaborn, and Plotly



- Database Access
- Tableau
- Power BI

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2022-23**

| S.NO | ROLL NO | NAME                | BRANCH     | YEAR | VALUE ADDED COURSE     |
|------|---------|---------------------|------------|------|------------------------|
| 1    | 1906410 | KIRAN               | B.TECH CSE | 4TH  | ETHICS OF DATA SCIENCE |
| 2    | 1906411 | KULVEER SINGH       | B.TECH CSE | 4TH  | ETHICS OF DATA SCIENCE |
| 3    | 1906412 | KUSHAL BHALWAL      | B.TECH CSE | 4TH  | ETHICS OF DATA SCIENCE |
| 4    | 1906413 | MANISHA DEVI        | B.TECH CSE | 4TH  | ETHICS OF DATA SCIENCE |
| 5    | 1906414 | PRINCEDEEP SINGH    | B.TECH CSE | 4TH  | ETHICS OF DATA SCIENCE |
| 6    | 1906416 | SHEIKH UMMAR SAROOQ | B.TECH CSE | 4TH  | ETHICS OF DATA SCIENCE |
| 7    | 1906418 | TENZIN TASHI        | B.TECH CSE | 4TH  | ETHICS OF DATA SCIENCE |
| 8    | 1906421 | ZOSANGZUALI FANAI   | B.TECH CSE | 4TH  | ETHICS OF DATA SCIENCE |
| 9    | 2005339 | NATESH KUMAR        | B.TECH CSE | 4TH  | ETHICS OF DATA SCIENCE |
| 10   | 2005340 | ROHAN GILL          | B.TECH CSE | 4TH  | ETHICS OF DATA SCIENCE |
| 11   | 2005341 | YASH CHAUHAN        | B.TECH CSE | 4TH  | ETHICS OF DATA SCIENCE |
| 12   | 1906405 | DIVYAJOT KAUR       | B.TECH CSE | 4TH  | ETHICS OF DATA SCIENCE |
| 13   | 2204505 | AJAY PRATAP SINGH   | MCA        | 1ST  | ETHICS OF DATA SCIENCE |
| 14   | 2204506 | BAIVHAB KOUNDAL     | MCA        | 1ST  | ETHICS OF DATA SCIENCE |
| 15   | 2204507 | GURVINDER SINGH     | MCA        | 1ST  | ETHICS OF DATA SCIENCE |
| 16   | 2204509 | MANU MINHAS         | MCA        | 1ST  | ETHICS OF DATA SCIENCE |
| 17   | 2204511 | NIKHIL RANA         | MCA        | 1ST  | ETHICS OF DATA SCIENCE |
| 18   | 2204513 | POOJA RANI          | MCA        | 1ST  | ETHICS OF DATA SCIENCE |
| 19   | 2204523 | VEER KAUR           | MCA        | 1ST  | ETHICS OF DATA SCIENCE |
| 20   | 2204573 | ABDUL MAJEED AKHOON | M.TECH     | 1ST  | ETHICS OF DATA SCIENCE |

|    |         |                 |        |     |                        |
|----|---------|-----------------|--------|-----|------------------------|
| 21 | 2204575 | AKASHDEEP SINGH | M.TECH | 1ST | ETHICS OF DATA SCIENCE |
| 22 | 2204576 | DEEPAK BAWA     | M.TECH | 1ST | ETHICS OF DATA SCIENCE |
| 23 | 2204577 | DEEPIKA         | M.TECH | 1ST | ETHICS OF DATA SCIENCE |

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# IETBHADDAL

TECHNICAL  
CAMPUS  
OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

SHUBLAKS  
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SINGH  
BINDRA

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**Principal**

**Date of issue**



### 1.2.1 QnM Number of Add on /Certificate/Value added programs offered during 2021-22

| Name of Certificate/ Value added course offered and online courses of OOCs, SWAYAM, NPTEL etc. where the students of the institution have enrolled and successfully completed | Course Code | Period (from date - to date) | Duration of course | Number of students enrolled in the year | Link                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------|--------------------|-----------------------------------------|----------------------|
| CALIBRATION AND MEASUREMENT                                                                                                                                                   | VAIET021    | 16/7/2021 to 22/10/2021      | 45 HRS             | 16                                      | <a href="#">view</a> |
| PARALLEL PROGRAMMING                                                                                                                                                          | VAIET022    | 02/8/2021 to 08/11/2021      | 45 HRS             | 15                                      | <a href="#">view</a> |
| MOBILE WEB DEVELOPMENT                                                                                                                                                        | VAIET023    | 22/7/2021 to 28/10/2021      | 45 HRS             | 20                                      | <a href="#">view</a> |
| 2D AND 3D MODELLING IN SOLIDS                                                                                                                                                 | VAIET024    | 15/7/2021 to 21/10/2021      | 45 HRS             | 20                                      | <a href="#">view</a> |
| DEEP LEARNING                                                                                                                                                                 | VAIET025    | 23/7/2021 to 29/10/2021      | 40 HRS             | 13                                      | <a href="#">view</a> |
| ETHICAL HACKING                                                                                                                                                               | VAIET026    | 23/7/2021 to 5/11/2021       | 45 HRS             | 15                                      | <a href="#">view</a> |
| SALES PROMOTION MANAGEMENT                                                                                                                                                    | VAIET027    | 12/1/2022 to 20/04/2022      | 45 HRS             | 15                                      | <a href="#">view</a> |
| STRESS MANAGEMENT                                                                                                                                                             | VAIET028    | 31/01/2022 to 09/05/2022     | 45 HRS             | 16                                      | <a href="#">view</a> |
| STRUCTURAL ELUCIDATION                                                                                                                                                        | VAIET029    | 13/01/2022 to 21/04/2022     | 45 HRS             | 20                                      | <a href="#">view</a> |
| ANALOG ICS                                                                                                                                                                    | VAIET030    | 3/2/2022 to 12/05/2022       | 45 HRS             | 20                                      | <a href="#">view</a> |
| ADVANCE COMPUTER APPLICATIONS                                                                                                                                                 | VAIET031    | 7/1/2022 to 15/04/2022       | 45 HRS             | 20                                      | <a href="#">view</a> |

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# IET BHADDAL

Campus: Bhaddal, PO Mianpur, Distt. Ropar, Punjab-140108 (India)  
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TECHNICAL  
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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2021-22**

| S.NO  | PROGRAM NAME | TOTAL NO OF STUDENTS | NO OF STUDENTS ENROLLED WITHOUT REPEAT |
|-------|--------------|----------------------|----------------------------------------|
| 1     | B.TECH CSE   | 53                   | 53                                     |
| 2     | B.TECH ECE   | 0                    | 0                                      |
| 3     | B.TECH EE    | 16                   | 16                                     |
| 4     | B.TECH CIVIL | 21                   | 21                                     |
| 5     | B.TECH ME    | 13                   | 13                                     |
| 6     | B.ARCH       | 22                   | 22                                     |
| 7     | M.TECH CSE   | 5                    | 5                                      |
| 8     | M.TECH EE    | 18                   | 18                                     |
| 9     | MBA          | 19                   | 19                                     |
| 10    | MCA          | 37                   | 30                                     |
| 11    | MARCH        | 0                    | 0                                      |
| TOTAL |              | 204                  | 197                                    |

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2021-22**

| S.NO | ROLL NO | NAME                   | BRANCH     | YEAR | VALUE ADDED COURSE                |
|------|---------|------------------------|------------|------|-----------------------------------|
| 1    | 1708058 | MEHAK ARORA            | B.arch     | 5th  | 2d and 3d modelling in solid Edge |
| 2    | 1708059 | NANDINI SINGH          | B.arch     | 5th  | 2d and 3d modelling in solid Edge |
| 3    | 1708060 | PANDAY RAHUL KEDARNATH | B.arch     | 5th  | 2d and 3d modelling in solid Edge |
| 4    | 1708061 | POONAM THAKUR          | B.arch     | 5th  | 2d and 3d modelling in solid Edge |
| 5    | 1708062 | PRANSHU                | B.arch     | 5th  | 2d and 3d modelling in solid Edge |
| 6    | 1708063 | RASHIKA CHAUDHARY      | B.arch     | 5th  | 2d and 3d modelling in solid Edge |
| 7    | 1708064 | SALEEM MAJEED NAJAR    | B.arch     | 5th  | 2d and 3d modelling in solid Edge |
| 8    | 1708065 | SAURAV DIWAN           | B.arch     | 5th  | 2d and 3d modelling in solid Edge |
| 9    | 1906412 | KUSHAL BHALWAL         | B.TECH CSE | 3rd  | 2d and 3d modelling in solid Edge |
| 10   | 1906413 | MANISHA DEVI           | B.TECH CSE | 3rd  | 2d and 3d modelling in solid Edge |
| 11   | 1906414 | PRINCEDEEP SINGH       | B.TECH CSE | 3rd  | 2d and 3d modelling in solid Edge |
| 12   | 1906416 | SHEIKH UMMAR SAROOQ    | B.TECH CSE | 3rd  | 2d and 3d modelling in solid Edge |
| 13   | 1906442 | PRERNA SHARMA          | B.Tech ME  | 3rd  | 2d and 3d modelling in solid Edge |
| 14   | 1934518 | ROHIT THAKUR           | B.Tech ME  | 3rd  | 2d and 3d modelling in solid      |



|    |         |                     |              |     |                                   |
|----|---------|---------------------|--------------|-----|-----------------------------------|
|    |         |                     |              |     | Edge                              |
| 15 | 1906444 | SHEKHAR             | B.Tech ME    | 3rd | 2d and 3d modelling in solid Edge |
| 16 | 1906445 | SHIVJEET SINGH      | B.Tech ME    | 3rd | 2d and 3d modelling in solid Edge |
| 17 | 1934517 | SIKAS BATTI         | B.Tech ME    | 3rd | 2d and 3d modelling in solid Edge |
| 18 | 1906400 | HARPREET SAINI      | B.tech civil | 3rd | 2d and 3d modelling in solid Edge |
| 19 | 1906401 | NABIL MAMJI         | B.tech civil | 3rd | 2d and 3d modelling in solid Edge |
| 20 | 1906402 | RITIK KUMAR         | B.tech civil | 3rd | 2d and 3d modelling in solid Edge |
| 21 | 1906413 | MANISHA DEVI        | B-TECH CSE   | 3rd | Advance Computer Application I/II |
| 22 | 1906414 | PRINCEDEEP SINGH    | B-TECH CSE   | 3rd | Advance Computer Application I/II |
| 23 | 1906416 | SHEIKH UMMAR SAROOQ | B-TECH CSE   | 3rd | Advance Computer Application I/II |
| 24 | 1906418 | TENZIN TASHI        | B-TECH CSE   | 3rd | Advance Computer Application I/II |
| 25 | 1906421 | ZOSANGZUALI FANAI   | B-TECH CSE   | 3rd | Advance Computer Application I/II |
| 26 | 2005339 | NATESH KUMAR        | B-TECH CSE   | 3rd | Advance Computer Application I/II |
| 27 | 2005340 | ROHAN GILL          | B-TECH CSE   | 3rd | Advance Computer Application I/II |
| 28 | 2005341 | YASH CHAUHAN        | B-TECH CSE   | 3rd | Advance Computer Application I/II |
| 29 | 1708155 | SHUBHAM             | B-TECH CSE   | 3rd | Advance Computer Application I/II |
| 30 | 2105024 | AMIT VERMA          | B-TECH CSE   | 1st | Advance Computer Application I/II |

|    |         |                            |            |     |                                         |
|----|---------|----------------------------|------------|-----|-----------------------------------------|
| 31 | 2105025 | BASHAR<br>HOSSEN           | B.TECH CSE | 1st | Advance<br>Computer<br>Application I/II |
| 32 | 2105031 | FAYSAL<br>MONDAL           | B.TECH CSE | 1st | Advance<br>Computer<br>Application I/II |
| 33 | 2105027 | KANIKA                     | B-TECH CSE | 1st | Advance<br>Computer<br>Application I/II |
| 34 | 2105028 | KRIKA BANSAL               | B.TECH CSE | 1st | Advance<br>Computer<br>Application I/II |
| 35 | 2105029 | LALIT KUMAR                | B.TECH CSE | 1st | Advance<br>Computer<br>Application I/II |
| 36 | 2105030 | LOVPREET KAUR              | B.TECH CSE | 1st | Advance<br>Computer<br>Application I/II |
| 37 | 2105032 | NISHITA<br>THAKUR          | B.TECH CSE | 1st | Advance<br>Computer<br>Application I/II |
| 38 | 2105033 | SAMARJIT<br>JHADAI         | B.TECH CSE | 1st | Advance<br>Computer<br>Application I/II |
| 39 | 2105146 | AIJAZ AHMAD                | M.Tech EE  | 1ST | ANALOG ICS                              |
| 40 | 2105147 | AKSHIT JASWAL              | M.Tech EE  | 1ST | ANALOG ICS                              |
| 41 | 2105148 | ARSHDEEP<br>SINGH          | M.Tech EE  | 1ST | ANALOG ICS                              |
| 42 | 2105149 | BASHI BASHIR               | M.Tech EE  | 1ST | ANALOG ICS                              |
| 43 | 2105150 | FAYAZ AHMAD<br>DAR         | M.Tech EE  | 1ST | ANALOG ICS                              |
| 44 | 2105151 | MISBAH RIYAZ               | M.Tech EE  | 1ST | ANALOG ICS                              |
| 45 | 2105152 | MUZAFFAR<br>MUSHTAQ        | M.Tech EE  | 1ST | ANALOG ICS                              |
| 46 | 2105153 | MUZAMIL<br>AHMAD<br>PADDAR | M.Tech EE  | 1ST | ANALOG ICS                              |
| 47 | 2105154 | MUZAMIL<br>MUSHTAQ         | M.Tech EE  | 1ST | ANALOG ICS                              |
| 48 | 2105155 | RAJAT KUMAR                | M.Tech EE  | 1ST | ANALOG ICS                              |
| 49 | 2105156 | REYAZ AHMAD<br>BHAT        | M.Tech EE  | 1ST | ANALOG ICS                              |
| 50 | 2105157 | SAIMA SHAFI<br>CHOUDHARY   | M.Tech EE  | 1ST | ANALOG ICS                              |
| 51 | 2105158 | SAQIB SHAFI<br>MIR         | M.Tech EE  | 1ST | ANALOG ICS                              |
| 52 | 2105159 | SATINDER<br>YADAV          | M.Tech EE  | 1ST | ANALOG ICS                              |

|    |         |                           |           |     |                                    |
|----|---------|---------------------------|-----------|-----|------------------------------------|
| 53 | 2105160 | SHAKIR HUSSAIN<br>MIR     | M.Tech EE | 1ST | ANALOG ICS                         |
| 54 | 2105161 | UMAR<br>KHURSHEED<br>LONE | M.Tech EE | 1ST | ANALOG ICS                         |
| 55 | 2105162 | UMER RASHEED<br>MIR       | M.Tech EE | 1ST | ANALOG ICS                         |
| 56 | 2105163 | ZAHD<br>MANZOOR           | M.Tech EE | 1ST | ANALOG ICS                         |
| 57 | 2105125 | NIKHIL DHIMAN             | B.tech ee | 2ND | ANALOG ICS                         |
| 58 | 2105126 | NITESH                    | B.Tech EE | 2ND | ANALOG ICS                         |
| 59 | 1807009 | AKSHIT JOSHI              | B.tech ME | 4TH | CALIBERATION<br>AND<br>MEASUREMENT |
| 60 | 1807010 | ANMOL<br>SHARMA           | B.tech ME | 4TH | CALIBERATION<br>AND<br>MEASUREMENT |
| 61 | 1807011 | ASHOOK<br>KUMAR SAH       | B.tech ME | 4TH | CALIBERATION<br>AND<br>MEASUREMENT |
| 62 | 1807012 | BALWINDER<br>SINGH        | B.tech ME | 4TH | CALIBERATION<br>AND<br>MEASUREMENT |
| 63 | 1834619 | DURGESH<br>TIWARI         | B.tech ME | 4TH | CALIBERATION<br>AND<br>MEASUREMENT |
| 64 | 1934517 | SIKAS BATT                | B.tech ME | 3RD | CALIBERATION<br>AND<br>MEASUREMENT |
| 65 | 1906447 | WAEEL NOMAN               | B.tech ME | 3RD | CALIBERATION<br>AND<br>MEASUREMENT |
| 66 | 1906422 | ESHWAR                    | B.tech EE | 3RD | CALIBERATION<br>AND<br>MEASUREMENT |
| 67 | 1906423 | GURPREET<br>SINGH         | B.tech EE | 3RD | CALIBERATION<br>AND<br>MEASUREMENT |
| 68 | 2122107 | NITESH                    | B.tech EE | 2ND | CALIBERATION<br>AND<br>MEASUREMENT |
| 69 | 2122175 | RHYTHMPREET<br>SINGH      | B.tech EE | 2ND | CALIBERATION<br>AND<br>MEASUREMENT |
| 70 | 2122403 | SATPAL                    | B.tech EE | 2ND | CALIBERATION<br>AND<br>MEASUREMENT |
| 71 | 2122363 | SATWINDER                 | B.tech EE | 2ND | CALIBERATION                       |



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|    |         | SINGH               |            |     | AND<br>MEASUREMENT                |
|----|---------|---------------------|------------|-----|-----------------------------------|
| 72 | 2122173 | SAURAV              | B.tech EE  | 2ND | CALIBRATION<br>AND<br>MEASUREMENT |
| 73 | 2122408 | SHAHNAWAZ<br>GUL    | B.tech EE  | 2ND | CALIBRATION<br>AND<br>MEASUREMENT |
| 74 | 2122171 | SUKHJOT SINGH       | B.tech EE  | 2ND | CALIBRATION<br>AND<br>MEASUREMENT |
| 75 | 2005330 | AMANPREET<br>KAUR   | MCA        | 2ND | DEEP LEARNING                     |
| 76 | 2005331 | HARPREET KAUR       | MCA        | 2ND | DEEP LEARNING                     |
| 77 | 1806944 | ABHIJEET SINGH      | B.TECH CSE | 4TH | DEEP LEARNING                     |
| 78 | 1806945 | ABHISHEK<br>THAKUR  | B.TECH CSE | 4TH | DEEP LEARNING                     |
| 79 | 1806946 | AKASHDEEP<br>SINGH  | B.TECH CSE | 4TH | DEEP LEARNING                     |
| 80 | 1806947 | AKRITI              | B.TECH CSE | 4TH | DEEP LEARNING                     |
| 81 | 1806949 | AMIT KUMAR          | B.TECH CSE | 4TH | DEEP LEARNING                     |
| 82 | 1806950 | AMRINDER<br>SINGH   | B.TECH CSE | 4TH | DEEP LEARNING                     |
| 83 | 1806951 | ANKIT KAUL          | B.TECH CSE | 4TH | DEEP LEARNING                     |
| 84 | 1806952 | ANOOB KUMAR         | B.TECH CSE | 4TH | DEEP LEARNING                     |
| 85 | 1806955 | ATUL KUMAR          | B.TECH CSE | 4TH | DEEP LEARNING                     |
| 86 | 1806957 | DALBIR SINGH        | B.TECH CSE | 4TH | DEEP LEARNING                     |
| 87 | 1806958 | DILBAG SINGH        | B.TECH CSE | 4TH | DEEP LEARNING                     |
| 88 | 2105142 | PRABHJOT KAUR       | M.Tech CSE | 1st | ETHICAL<br>HACKING                |
| 89 | 2105143 | RAJ KUMAR           | M.Tech CSE | 1st | ETHICAL<br>HACKING                |
| 90 | 2105144 | RIYA                | M.Tech CSE | 1st | ETHICAL<br>HACKING                |
| 91 | 2105145 | SUPRIYA<br>SHARMA   | M.Tech CSE | 1st | ETHICAL<br>HACKING                |
| 92 | 2134685 | VANDNA<br>KUMARI    | M.Tech CSE | 1st | ETHICAL<br>HACKING                |
| 93 | 2005288 | AMANDEEP<br>SINGH   | B.TECH CSE | 2nd | ETHICAL<br>HACKING                |
| 94 | 2005289 | ANIKET KUMAR        | B.TECH CSE | 2nd | ETHICAL<br>HACKING                |
| 95 | 2005290 | ANSHDEEP<br>BHATHAL | B.TECH CSE | 2nd | ETHICAL<br>HACKING                |
| 96 | 2005291 | ARSHDEEP<br>SINGH   | B.TECH CSE | 2nd | ETHICAL<br>HACKING                |
| 97 | 1906404 | BABLI SAINI         | B.TECH CSE | 3rd | ETHICAL<br>HACKING                |



|     |         |                    |            |     |                        |
|-----|---------|--------------------|------------|-----|------------------------|
| 98  | 1906405 | DIVYAJOT KAUR      | B.TECH CSE | 3rd | ETHICAL HACKING        |
| 99  | 1906407 | JAGDEEP KAUR       | B.TECH CSE | 3rd | ETHICAL HACKING        |
| 100 | 1906410 | KIRAN              | B.TECH CSE | 3rd | ETHICAL HACKING        |
| 101 | 1906411 | KULVEER SINGH      | B.TECH CSE | 3rd | ETHICAL HACKING        |
| 102 | 1906412 | KUSHAL BHALWAL     | B.TECH CSE | 3rd | ETHICAL HACKING        |
| 103 | 2105088 | ABHISHEK           | MCA        | 1ST | MOBILE WEB DEVELOPMENT |
| 104 | 2105089 | AMANDEEP KAUR      | MCA        | 1ST | MOBILE WEB DEVELOPMENT |
| 105 | 2105091 | AQIB NASEER        | MCA        | 1ST | MOBILE WEB DEVELOPMENT |
| 106 | 2105092 | HARPREET KAUR      | MCA        | 1ST | MOBILE WEB DEVELOPMENT |
| 107 | 2105093 | HARSH DHIMAN       | MCA        | 1ST | MOBILE WEB DEVELOPMENT |
| 108 | 2105095 | MANDEEP KAUR       | MCA        | 1ST | MOBILE WEB DEVELOPMENT |
| 109 | 2105096 | MANDEEP SINGH      | MCA        | 1ST | MOBILE WEB DEVELOPMENT |
| 110 | 2105097 | MOHAMMAD ASIF LONE | MCA        | 1ST | MOBILE WEB DEVELOPMENT |
| 111 | 2105099 | NIKUNJ GUPTA       | MCA        | 1ST | MOBILE WEB DEVELOPMENT |
| 112 | 2105100 | PAVANDEEP KAUR     | MCA        | 1ST | MOBILE WEB DEVELOPMENT |
| 113 | 2105101 | REEMA KUMARI       | MCA        | 1ST | MOBILE WEB DEVELOPMENT |
| 114 | 2105102 | ROSHAL LAL         | MCA        | 1ST | MOBILE WEB DEVELOPMENT |
| 115 | 2105103 | SHOWKAT AHMAD BHAT | MCA        | 1ST | MOBILE WEB DEVELOPMENT |
| 116 | 2105105 | UMER FAROOQ MIR    | MCA        | 1ST | MOBILE WEB DEVELOPMENT |
| 117 | 2105106 | VISHAL BHATIA      | MCA        | 1ST | MOBILE WEB DEVELOPMENT |
| 118 | 2034521 | BHARTI SONI        | MCA        | 2ND | MOBILE WEB DEVELOPMENT |
| 119 | 2034519 | DEEPANSHU TANDOU   | MCA        | 2ND | MOBILE WEB DEVELOPMENT |
| 120 | 2006462 | JATIN GAUTAM       | MCA        | 2ND | MOBILE WEB DEVELOPMENT |
| 121 | 2006463 | JYOTI DEVI         | MCA        | 2ND | MOBILE WEB DEVELOPMENT |



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|     |         |                    |     |     |                        |
|-----|---------|--------------------|-----|-----|------------------------|
| 122 | 2006464 | KIRANDEEP KAUR     | MCA | 2ND | MOBILE WEB DEVELOPMENT |
| 123 | 2105095 | MANDEEP KAUR       | MCA | 1st | PARALLEL PROGRAMMING   |
| 124 | 2105096 | MANDEEP SINGH      | MCA | 1st | PARALLEL PROGRAMMING   |
| 125 | 2105097 | MOHAMMAD ASIF LONE | MCA | 1st | PARALLEL PROGRAMMING   |
| 126 | 2105099 | NIKUNJ GUPTA       | MCA | 1st | PARALLEL PROGRAMMING   |
| 127 | 2105100 | PAVANDEEP KAUR     | MCA | 1st | PARALLEL PROGRAMMING   |
| 128 | 2105101 | REEMA KUMARI       | MCA | 1st | PARALLEL PROGRAMMING   |
| 129 | 2105102 | ROSHAL LAL         | MCA | 1st | PARALLEL PROGRAMMING   |
| 130 | 2105103 | SHOWKAT AHMAD BHAT | MCA | 1st | PARALLEL PROGRAMMING   |
| 131 | 2105105 | UMER FAROOQ MIR    | MCA | 1st | PARALLEL PROGRAMMING   |
| 132 | 2105106 | VISHAL BHATIA      | MCA | 1st | PARALLEL PROGRAMMING   |
| 133 | 2105142 | PRABHJOT KAUR      | MCA | 1st | PARALLEL PROGRAMMING   |
| 134 | 2105143 | RAJ KUMAR          | MCA | 1st | PARALLEL PROGRAMMING   |
| 135 | 2105144 | RIYA               | MCA | 1st | PARALLEL PROGRAMMING   |
| 136 | 2105145 | SUPRIYA SHARMA     | MCA | 1st | PARALLEL PROGRAMMING   |
| 137 | 2134685 | VANDNA KUMARI      | MCA | 1st | PARALLEL PROGRAMMING   |
| 138 | 2105044 | BHAVNA DEVI        | MBA | 2ND | SALES PROMOTION        |
| 139 | 2105045 | DIKSHA DHIMAN      | MBA | 2ND | SALES PROMOTION        |
| 140 | 2105046 | GAGANDEEP KAUR     | MBA | 2ND | SALES PROMOTION        |
| 141 | 2105047 | GURWINDER SINGH    | MBA | 2ND | SALES PROMOTION        |
| 142 | 2105048 | HARDEEP SINGH      | MBA | 2ND | SALES PROMOTION        |
| 143 | 2105049 | HARMANJEET KAUR    | MBA | 2ND | SALES PROMOTION        |
| 144 | 2105050 | HARMINDER KAUR     | MBA | 2ND | SALES PROMOTION        |
| 145 | 2105051 | HARPREET SINGH     | MBA | 2ND | SALES PROMOTION        |

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Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)

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|-----|---------|----------------------|--------------|-----|-------------------------|
| 146 | 2105052 | HUZAIF SIKANDER      | MBA          | 2ND | SALES PROMOTION         |
| 147 | 2105053 | ISHFAQ AHMAD BHAT    | MBA          | 2ND | SALES PROMOTION         |
| 148 | 2105054 | JAFFAR MAQBOOL       | MBA          | 2ND | SALES PROMOTION         |
| 149 | 2105055 | JAMSHEED HUSSAIN DAR | MBA          | 2ND | SALES PROMOTION         |
| 150 | 2105056 | JASHANPREET KAUR     | MBA          | 2ND | SALES PROMOTION         |
| 151 | 2105057 | KAMALJEET KAUR       | MBA          | 2ND | SALES PROMOTION         |
| 152 | 2105058 | KAMALPREET KAUR      | MBA          | 2ND | SALES PROMOTION         |
| 153 | 1807029 | PARMINDER SINGH      | B.tech civil | 4TH | STRUCTURAL ELUCIDIATION |
| 154 | 1806926 | AMIT KUMAR YADAV     | B.tech civil | 4TH | STRUCTURAL ELUCIDIATION |
| 155 | 1806928 | ASHISH SHARMA        | B.tech civil | 4TH | STRUCTURAL ELUCIDIATION |
| 156 | 1904785 | PRINCE               | B.tech civil | 3RD | STRUCTURAL ELUCIDIATION |
| 157 | 2005333 | NISHANT RAHMAN       | B.tech civil | 3RD | STRUCTURAL ELUCIDIATION |
| 158 | 2005334 | MOHAMMAD ILAYAS      | B.tech civil | 3RD | STRUCTURAL ELUCIDIATION |
| 159 | 2005338 | SABEENA NAZIR        | B.tech civil | 3RD | STRUCTURAL ELUCIDIATION |
| 160 | 2028561 | MOHD IQBAL SHEIKH    | B.tech civil | 3RD | STRUCTURAL ELUCIDIATION |
| 161 | 1906392 | AKSHAY GOYAL         | B.arch       | 3RD | STRUCTURAL ELUCIDIATION |
| 162 | 1906393 | ASHWINI THAKREY      | B.arch       | 3RD | STRUCTURAL ELUCIDIATION |
| 163 | 1906394 | DIKSHA SHARMA        | B.arch       | 3RD | STRUCTURAL ELUCIDIATION |
| 164 | 1906396 | INDERPREET KAUR      | B.arch       | 3RD | STRUCTURAL ELUCIDIATION |
| 165 | 1906397 | JETHRO BANDA         | B.arch       | 3RD | STRUCTURAL ELUCIDIATION |
| 166 | 1935286 | SIMRANJOT SINGH      | B.arch       | 3RD | STRUCTURAL ELUCIDIATION |
| 167 | 2005284 | JATIN KUMAR BHATIA   | B.tech civil | 2ND | STRUCTURAL ELUCIDIATION |
| 168 | 2105108 | ABRAR NAZIR SHAH     | B.tech civil | 2ND | STRUCTURAL ELUCIDIATION |
| 169 | 2105109 | ADNAN HUSSAIN SHEIKH | B.tech civil | 2ND | STRUCTURAL ELUCIDIATION |

|     |         |                    |              |     |                         |
|-----|---------|--------------------|--------------|-----|-------------------------|
| 170 | 2105110 | AMIT KUMAR         | B.tech civil | 2ND | STRUCTURAL ELUCIDIATION |
| 171 | 2105111 | HAAFIZ ZAMAL       | B.tech civil | 2ND | STRUCTURAL ELUCIDIATION |
| 172 | 2105112 | HAZOOR ALI         | B.tech civil | 2ND | STRUCTURAL ELUCIDIATION |
| 173 | 2105024 | AMIT VERMA         | B.TECH CSE   | 1ST | STRESS MANAGEMENT       |
| 174 | 2105025 | BASHAR HOSSEN      | B.TECH CSE   | 1ST | STRESS MANAGEMENT       |
| 175 | 2105031 | FAYSAL MONDAL      | B.TECH CSE   | 1ST | STRESS MANAGEMENT       |
| 176 | 2105027 | KANIKA             | B.TECH CSE   | 1ST | STRESS MANAGEMENT       |
| 177 | 2105028 | KRIKA BANSAL       | B.TECH CSE   | 1ST | STRESS MANAGEMENT       |
| 178 | 2105029 | LALIT KUMAR        | B.TECH CSE   | 1ST | STRESS MANAGEMENT       |
| 179 | 2105030 | LOVPREET KAUR      | B.TECH CSE   | 1ST | STRESS MANAGEMENT       |
| 180 | 2105032 | NISHITA THAKUR     | B.TECH CSE   | 1ST | STRESS MANAGEMENT       |
| 181 | 2105033 | SAMARJIT JHADAI    | B.TECH CSE   | 1ST | STRESS MANAGEMENT       |
| 182 | 2105034 | TANYA MEHRA        | B.TECH CSE   | 1ST | STRESS MANAGEMENT       |
| 183 | 2105035 | AVNEET KAUR        | B.tech EE    | 1ST | STRESS MANAGEMENT       |
| 184 | 2105036 | CHARANJEET         | B.tech EE    | 1ST | STRESS MANAGEMENT       |
| 185 | 2105037 | DAMANPREET SINGH   | B.tech EE    | 1ST | STRESS MANAGEMENT       |
| 186 | 2105038 | RUPESH KUMAR YADAV | B.tech EE    | 1ST | STRESS MANAGEMENT       |
| 187 | 2105039 | VARUN SAINI        | B.tech EE    | 1ST | STRESS MANAGEMENT       |
| 188 | 2105020 | JEETU KUMAR        | B.tech civil | 1ST | STRESS MANAGEMENT       |
| 189 | 2105021 | NANCY MAHE         | B.tech civil | 1ST | STRESS MANAGEMENT       |
| 190 | 2105022 | SUKHCHAIN SINGH    | B.tech civil | 1ST | STRESS MANAGEMENT       |
| 191 | 2105023 | SUKHPREET SINGH    | B.tech civil | 1ST | STRESS MANAGEMENT       |
| 192 | 2105107 | TOUKIR HOSSAIN     | B.tech ME    | 1ST | STRESS MANAGEMENT       |
| 193 | 2105040 | AAMIR SAJAD GANOO  | MBA          | 1ST | STRESS MANAGEMENT       |



|     |         |                             |        |     |                      |
|-----|---------|-----------------------------|--------|-----|----------------------|
| 194 | 2105042 | AMAN ABROL                  | MBA    | 1ST | STRESS<br>MANAGEMENT |
| 195 | 2105043 | ANKUSH KUMAR                | MBA    | 1ST | STRESS<br>MANAGEMENT |
| 196 | 2105041 | ASIF NABI<br>SHEIKH         | MBA    | 1ST | STRESS<br>MANAGEMENT |
| 197 | 2005281 | EMANJAP KAUR                | B.ARCH | 2ND | STRESS<br>MANAGEMENT |
| 198 | 2005282 | RAMANPREET<br>KAUR          | B.ARCH | 2ND | STRESS<br>MANAGEMENT |
| 199 | 1806918 | KARAM<br>GURPARTAP<br>SINGH | B.ARCH | 4TH | STRESS<br>MANAGEMENT |
| 200 | 1806919 | RAJAT                       | B.ARCH | 4TH | STRESS<br>MANAGEMENT |
| 201 | 1806920 | SAHIL                       | B.ARCH | 4TH | STRESS<br>MANAGEMENT |
| 202 | 1806922 | SHREYA JAIN                 | B.ARCH | 4TH | STRESS<br>MANAGEMENT |
| 203 | 1806923 | SIMRANJIT<br>KAUR           | B.ARCH | 4TH | STRESS<br>MANAGEMENT |
| 204 | 1806924 | Sourav K                    | B.ARCH | 4TH | STRESS<br>MANAGEMENT |

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Academic Year 2021-22

Activity organized Report

Date :22.10.2021

|                               |                                                                                                                                                                                                                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                  |
| Title of Activity             | CALIBRATION AND MEASUREMENT                                                                                                                                                                                                                                                                                         |
| Programme                     | B.TECH                                                                                                                                                                                                                                                                                                              |
| Date of Commencement          | 16.7.2021                                                                                                                                                                                                                                                                                                           |
| Date of Completion            | 22.10.2021                                                                                                                                                                                                                                                                                                          |
| Place of activity             | C Block Seminar Hall                                                                                                                                                                                                                                                                                                |
| No of participants Enrolled   | 16                                                                                                                                                                                                                                                                                                                  |
| No of participants completed  | 15                                                                                                                                                                                                                                                                                                                  |
| Course Coordinator and Expert | ONKAR SINGH                                                                                                                                                                                                                                                                                                         |
| Summary of activity           | The value added course for the odd Semester During the Academic Year 2021-22 was Successfully Organized .The Course On “CALIBRATION AND MEASUREMENT ” was covered .It was aimed at various course students to understand calibration .A total of 16 students registered for the course and 15 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                     |

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# IET BHADDAL

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## *Caliberation and Measurement Value Added Course*



*Commencement from:- 16/7/2021*

*Coordinator :- Onkar Singh*

*Organised by :-  
Department of  
Mechanical Engineering*

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IET/DEPT ME / 173

Date: 16/7/2019

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**Permission For Conducting value added course and allocate faculty member for same**

It is to bring to your kind notice that following value added course is finalized For academic Year 2021-22-.The details of value added Course is as follow

| S.no | Name of Value Added Course  | Class        | Contact Hrs | Date of Commencement | Expert      |
|------|-----------------------------|--------------|-------------|----------------------|-------------|
| 1    | CALIBRATION AND MEASUREMENT | B.TECH EE,ME | 30/45       | 16.7.2019            | ONKAR SINGH |
|      |                             |              |             |                      |             |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

Thanks and Regards

Course Coordinator

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Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)





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IET/VAC/ME/173

DATE 16/7/2019

## NOTICE

It is for the information of all students of - That department is conducting value added course entitled **-CALIBRATION AND MEASUREMENT** from **-16/7/2019**. The Course is scheduled for **---30 hrs** duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

Course Coordinator:  


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Head of Department  


Cc : principal ( For Kind information please)  
Head Of all Departments ( For Information)  
IQAC  
ALL the notice boards





Dept of ME

2021-22

| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                   |       |                                            |      |       |      |      |      |       |        |        |       |                        |       |       |        |                 |
|------------------------------------------|-------------------|-------|--------------------------------------------|------|-------|------|------|------|-------|--------|--------|-------|------------------------|-------|-------|--------|-----------------|
| DURATION 3HRS                            |                   |       | Name Of Course CALIBRATION AND MEASUREMENT |      |       |      |      |      |       |        |        |       | Course Duration 45 HRS |       |       |        |                 |
| S.no                                     | Name              | 16/7/ | 23/7                                       | 30/7 | 6-Aug | 13/8 | 20/8 | 27/8 | 3-Sep | 10-Sep | 17-Sep | 9/24/ | 1/10/                  | 8-Oct | 15/10 | 22/10/ | SIGNATURE       |
| 1                                        | AKSHIT JOSHI      | 1     | 2                                          | 3    | AB    | AB   | 4    | 5    | AB    | 6      | 7      | 8     | AB                     | 9     | 10    | 11     | Akshita         |
| 2                                        | ANMOL SHARMA      | AB    | AB                                         | 1    | 2     | 3    | AB   | 4    | 5     | 6      | AB     | 7     | 8                      | 9     | AB    | 10     | Anmol           |
| 3                                        | ASHOOK KUMAR SAH  | 1     | 2                                          | 3    | 4     | 5    | 6    | AB   | AB    | AB     | 7      | 8     | 9                      | AB    | 10    | 11     | Ashook          |
| 4                                        | BALWINDER SINGH   | 1     | 2                                          | 3    | 4     | 5    | 6    | 7    | AB    | 8      | 9      | 10    | AB                     | 11    | 12    | 13     | Balwinder Singh |
| 5                                        | DURGESH TIWARI    | 1     | 2                                          | 3    | 4     | 5    | 6    | 7    | AB    | 8      | 9      | 10    | AB                     | 11    | 12    | 13     | Durgesh         |
| 6                                        | SIKAS BATTA       | 1     | 2                                          | 3    | 4     | 5    | 6    | 7    | AB    | 8      | 9      | 10    | AB                     | 11    | 12    | 13     | Sikas           |
| 7                                        | WAEEL NOMAN       | 1     | 2                                          | 3    | 4     | 5    | 6    | 7    | AB    | 8      | 9      | 10    | AB                     | 11    | 12    | 13     | Wael            |
| 8                                        | ESHWAR            | 1     | 2                                          | 3    | 4     | 5    | 6    | 7    | AB    | 8      | 9      | 10    | AB                     | 11    | 12    | 13     | Eshwar          |
| 9                                        | GURPREET SINGH    | 1     | 2                                          | 3    | 4     | 5    | 6    | 7    | AB    | 8      | 9      | 10    | AB                     | 11    | 12    | 13     | Gurbreet Singh  |
| 10                                       | NITESH            | 1     | 2                                          | 3    | 4     | 5    | 6    | AB   | 7     | 8      | 9      | 10    | AB                     | 11    | 12    | 13     | Nitesh          |
| 11                                       | RHYTHMPREET SINGH | 1     | 2                                          | 3    | 4     | 5    | 6    | AB   | AB    | 8      | 9      | 10    | AB                     | 11    | 12    | 13     | Rhythm          |
| 12                                       | SATPAL            | 1     | 2                                          | 3    | 4     | 5    | 6    | AB   | AB    | 8      | 9      | 10    | AB                     | 11    | 12    | 13     | Satpal          |
| 13                                       | SATWINDER SINGH   | 1     | 2                                          | 3    | 4     | 5    | 6    | AB   | AB    | 8      | 9      | 10    | AB                     | 11    | 12    | 13     | Satwinder       |
| 14                                       | SAURAV            | 1     | 2                                          | 3    | 4     | 5    | 6    | AB   | AB    | 8      | 9      | 10    | AB                     | 11    | 12    | 13     | Saurav          |
| 15                                       | SHAHNAWAZ GUL     | 1     | 2                                          | 3    | 4     | 5    | 6    | AB   | AB    | 8      | 9      | 10    | AB                     | 11    | 12    | 13     | Shahnawaz       |
| 16                                       | SUKHJOT SINGH     | 1     | 2                                          | 3    | 4     | 5    | 6    | AB   | AB    | 8      | 9      | 10    | AB                     | 11    | 12    | 13     | Sukhjot Singh   |

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# CALIBRATION AND MEASUREMENT

## SYLLABUS

### **Standards of measurement, units of measurement.**

### **Errors in measurement (8 Hours)**

Types of errors, random errors, systematic errors, constant errors, scale errors, reading errors, compound errors etc. Output flatness, straightness, roundness, parallelism, cylindricity, perpendicularity, angularity, concentricity errors that can be usually eliminated, Errors that cannot be eliminated

### **Types of measurement and measuring instruments (12 Hours)**

Linear measurement: Steel rule, Calipers, Vernier Calipers, Micrometers, Height gauge, Slip gauge. Angular and taper measurement: Protectors, Engineering square, Adjustable bevel, Bevel protectors, Dividing head, Sine bar, Sine centers, Angle gauge, Clinometers, Autocollimators, Taper gauges. Surface measurement: Spirit level, Straight edge, Surface gauge, Optical flat, Interferometer, Surface plate. Measurement of screw threads and gears. Comparators: mechanical, electrical, optical, pneumatic, miscellaneous measurements

### **Limits, Fits and Gauges (8 Hours)**

Introduction, Terminology, Interchangeability, Selective assembly systems of limits and fits: Types of fits, interference, transition and clearance fits, basis of fits: Hole and shaft basis system

### **Metrology of screw threads (6 Hours)**

Screw thread terminology, Classification of threads, Errors in threads, Effect of errors, Measuring various elements of threads, Application of thread gauges.

### **Gear measurement and testing (8 Hours)**

Introduction, Gear tooth terminology, Involute curve, Sources of errors in manufacturing gears, Gear measurement, Tooth thickness measurement, Tooth profile measurement, Gear pitch measurement, Allowable errors in gears, Composite method of gear checking, General gear tests, Rolling tests.

### **References**

Rajput, R.K., "Mechanical Measurement and Instrumentation (including Metrology and Control System)", S.K. Kataria and Sons.

Jain, R. K., "Engineering Metrology", Khanna Publishers

Considine, D.M., "Process Instruments and Controls Handbook", McGraw-Hill, New York, Third Edition, 1985.



Wolf, S. and Smith, R.F.M., “Students Reference Manual for Electronic Instrumentation Laboratories”, Prentice Hall, Englewood Cliffs, New Jersey, 1990.

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2021-22**

| S.NO | ROLL NO | NAME              | BRANCH    | YEAR | VALUE ADDED COURSE           |
|------|---------|-------------------|-----------|------|------------------------------|
| 1    | 1807009 | AKSHIT JOSHI      | B.tech ME | 4TH  | CALIBERATION AND MEASUREMENT |
| 2    | 1807010 | ANMOL SHARMA      | B.tech ME | 4TH  | CALIBERATION AND MEASUREMENT |
| 3    | 1807011 | ASHOOK KUMAR SAH  | B.tech ME | 4TH  | CALIBERATION AND MEASUREMENT |
| 4    | 1807012 | BALWINDER SINGH   | B.tech ME | 4TH  | CALIBERATION AND MEASUREMENT |
| 5    | 1834619 | DURGESH TIWARI    | B.tech ME | 4TH  | CALIBERATION AND MEASUREMENT |
| 6    | 1934517 | SIKAS BATTIA      | B.tech ME | 3RD  | CALIBERATION AND MEASUREMENT |
| 7    | 1906447 | WAEEL NOMAN       | B.tech ME | 3RD  | CALIBERATION AND MEASUREMENT |
| 8    | 1906422 | ESHWAR            | B.tech EE | 3RD  | CALIBERATION AND MEASUREMENT |
| 9    | 1906423 | GURPREET SINGH    | B.tech EE | 3RD  | CALIBERATION AND MEASUREMENT |
| 10   | 2122107 | NITESH            | B.tech EE | 2ND  | CALIBERATION AND MEASUREMENT |
| 11   | 2122175 | RHYTHMPREET SINGH | B.tech EE | 2ND  | CALIBERATION AND MEASUREMENT |
| 12   | 2122403 | SATPAL            | B.tech EE | 2ND  | CALIBERATION AND MEASUREMENT |
| 13   | 2122363 | SATWINDER SINGH   | B.tech EE | 2ND  | CALIBERATION AND MEASUREMENT |
| 14   | 2122173 | SAURAV            | B.tech EE | 2ND  | CALIBERATION AND             |

|    |         |                  |           |     |                                    |
|----|---------|------------------|-----------|-----|------------------------------------|
|    |         |                  |           |     | MEASUREMENT                        |
| 15 | 2122408 | SHAHNAWAZ<br>GUL | B.tech EE | 2ND | CALIBERATION<br>AND<br>MEASUREMENT |
| 16 | 2122171 | SUKHJOT SINGH    | B.tech EE | 2ND | CALIBERATION<br>AND<br>MEASUREMENT |

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# IETBHADDAL

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Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Date of issue**



## Academic Year 2021-22

### Activity organized Report

Date : 02.08.2021

|                               |                                                                                                                                                                                                                                                                                                              |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                           |
| Title of Activity             | <b>PARALLEL PROGRAMMING</b>                                                                                                                                                                                                                                                                                  |
| Programme                     | MCA, M.TECH                                                                                                                                                                                                                                                                                                  |
| Date of Commencement          | 02.08.2021                                                                                                                                                                                                                                                                                                   |
| Date of Completion            | 08.11.2021                                                                                                                                                                                                                                                                                                   |
| Place of activity             | C BLOCK SEMINAR HALL                                                                                                                                                                                                                                                                                         |
| No of participants Enrolled   | 15                                                                                                                                                                                                                                                                                                           |
| No of participants completed  | 14                                                                                                                                                                                                                                                                                                           |
| Course Coordinator and Expert | KAVITA KOUNDAL                                                                                                                                                                                                                                                                                               |
| Summary of activity           | The value added course for the odd Semester During the Academic Year 2021-22 was Successfully Organized .The Course On “PARALLEL PROGRAMMING ” was covered .It Was aimed at various course students to understand programming .A total of 15 students registered for the course and 14 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                              |

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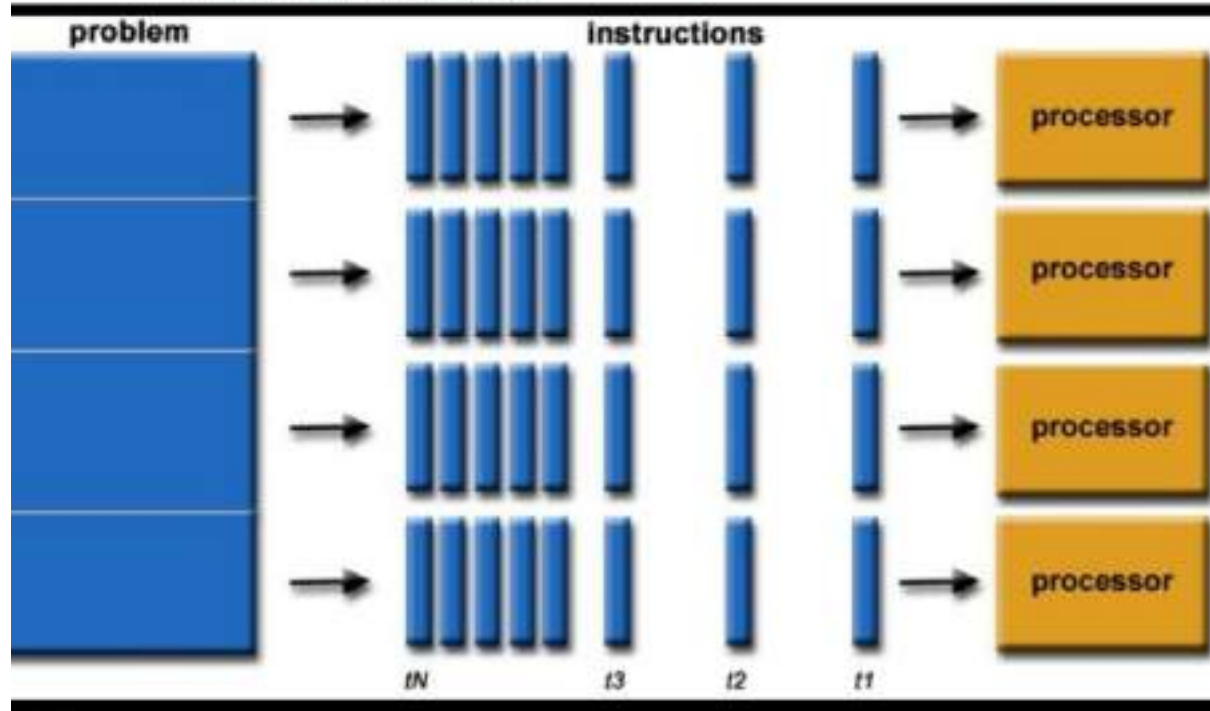
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# Parallel Programing

value added course



Commencement

from:- 2/8/2021

**Coordinator:-**

**Kavita**  
**Koundal**  
Department of  
MCA

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Date: 2/8/2021

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**Permission For Conducting value added course and allocate faculty member for same**

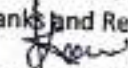
It is to bring to your kind notice that following value added course is finalized For academic Year 2023-24. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class       | Contact Hrs | Date of Commencement | Expert         |
|------|----------------------------|-------------|-------------|----------------------|----------------|
| 1    | PARALLEL PROGRAMMING       | MCA, M.TECH | 30/45       | 2.8.2021             | KAVITA KOUNDAL |
|      |                            |             |             |                      |                |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards  
  
Course co-ordinator





# IET BHADDAL

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IET/VAC/MCA/115

DATE 2/8/2021

## NOTICE

It is for the information of all students of - That **MCA** department is conducting value added course entitled – **PARALLEL PROGRAMMING** from –02/8/2021. The Course is scheduled for -45 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

  
Head of Department

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HAN SINGH  
BINDRA

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Dept of MCA 2021-22

| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                    |                                     |      |       |       |       |      |       |       |       |       |        |        |        |       |           |                 |
|------------------------------------------|--------------------|-------------------------------------|------|-------|-------|-------|------|-------|-------|-------|-------|--------|--------|--------|-------|-----------|-----------------|
| DURATION 3HR                             |                    | Name Of Course PARALLEL PROGRAMMING |      |       |       |       |      |       |       |       |       |        |        |        |       |           |                 |
| S.no                                     | Name               | 2.8.2021                            | 9//8 | 16//8 | 23//8 | 30//8 | 6//9 | 13//9 | 20//9 | 27//9 | 4//10 | 11//10 | 18//10 | 25//10 | 1//11 | 8.11.2021 | SIGNATURE       |
| 1                                        | MANDEEP KAUR       | 1                                   | 2    | ab    | 3     | AB    | 4    | 5     | 6     | AB    | AB    | 7      | 8      | 9      | AB    | 10        | mandeep kaur    |
| 2                                        | MANDEEP SINGH      | AB                                  | 1    | 2     | 3     | 4     | AB   | AB    | 5     | 6     | 7     | 8      | 9      | 10     | 11    | AB        | Mandeep Singh   |
| 3                                        | MOHAMMAD ASIF LONE | 1                                   | AB   | 3     | AB    | 4     | 5    | 6     | AB    | 7     | 8     | AB     | 9      | AB     | 10    | 11        | Mog Asif Lone   |
| 4                                        | NIKUNJ GUPTA       | 1                                   | 2    | 3     | 4     | 5     | 6    | 7     | 8     | AB    | 9     | 10     | AB     | AB     | 11    | 12        | Nikunj Gupta    |
| 5                                        | PAVANDEEP KAUR     | 1                                   | 2    | ab    | 3     | AB    | 4    | 5     | 6     | AB    | AB    | 7      | 8      | 9      | AB    | 10        | Pavandeep Kaur  |
| 6                                        | REEMA KUMARI       | AB                                  | 1    | 2     | 3     | 4     | AB   | AB    | 5     | 6     | 7     | 8      | 9      | 10     | 11    | AB        | Reema Kumari    |
| 7                                        | ROSHAL LAL         | 1                                   | AB   | 3     | AB    | 4     | 5    | 6     | AB    | 7     | 8     | AB     | 9      | AB     | 10    | 11        | Roshan Lal      |
| 8                                        | SHOWKAT AHMAD      | 1                                   | 2    | 3     | 4     | 5     | 6    | 7     | 8     | AB    | 9     | 10     | AB     | AB     | 11    | 12        | Showkat Ahmad   |
| 9                                        | UMER FAROOQ MIR    | 1                                   | AB   | 3     | AB    | 4     | 5    | 6     | AB    | 7     | 8     | AB     | 9      | AB     | 10    | 11        | Umer Farooq Mir |
| 10                                       | VISHAL BHATIA      | 1                                   | 2    | 3     | 4     | 5     | 6    | 7     | 8     | AB    | 9     | 10     | AB     | AB     | 11    | 12        | Vishal Bhatia   |
| 11                                       | PRABHJOT KAUR      | 1                                   | 2    | ab    | 3     | AB    | 4    | 5     | 6     | AB    | AB    | 7      | 8      | 9      | AB    | 10        | Prabhjot Kaur   |
| 12                                       | RAJ KUMAR          | AB                                  | 1    | 2     | 3     | 4     | AB   | AB    | 5     | 6     | 7     | 8      | 9      | 10     | 11    | AB        | Raj Kumar       |
| 13                                       | RIYA               | 1                                   | 2    | ab    | 3     | AB    | 4    | 5     | 6     | AB    | AB    | 7      | 8      | 9      | AB    | 10        | Riya            |
| 14                                       | SUPRIYA SHARMA     | AB                                  | 1    | 2     | 3     | 4     | AB   | AB    | 5     | 6     | 7     | 8      | 9      | 10     | 11    | AB        | Supriya Sharma  |
| 15                                       | VANDNA KUMARI      | 1                                   | AB   | 3     | AB    | 4     | 5    | 6     | AB    | 7     | 8     | AB     | 9      | AB     | 10    | 11        | Vandna Kumari   |

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# PARALLEL PROGRAMMING

## SYLLABUS

### Course Contents:

1. Introduction Why parallel computing? Shared memory and distributed memory parallelism, Amdahl's law, speedup and efficiency, supercomputers.
2. Message passing MPI basics, point-to-point communication, collective communication, synchronous/asynchronous send/recv, algorithms for gather, scatter, broadcast, reduce.
3. Parallel communication Network topologies, network evaluation metrics, communication cost, routing in interconnection networks, static and adaptive routing, process-to-processor mapping.
4. Performance Scalability, benchmarking, performance modeling, impact of network topologies, parallel code analysis and profiling.
5. Designing parallel codes Domain decomposition, communication-to-computation ratio, load balancing, adaptivity, case studies: weather and material simulation codes. 7
6. Parallel I/O MPI I/O algorithms, contemporary large-scale I/O architecture, I/O bottlenecks. 6
7. Additional topics Job scheduling, RDMA, one-sided communication, NVM, extreme scale computing: issues and trends.

### Books

Peter S Pacheco, An Introduction to Parallel Programming, Morgan Kaufmann, 2011.

DE Culler, A Gupta and JP Singh, Parallel Computer Architecture: A Hardware/Software Approach Morgan-Kaufmann, 1998.

Marc Snir, Steve W. Otto, Steven Huss-Lederman, David W. Walker and Jack Dongarra, MPI - The Complete Reference, Second Edition, Volume 1, The MPI Core.

William Gropp, Ewing Lusk, Anthony Skjellum, Using MPI : portable parallel programming with the message-passing interface, 3rd Ed., Cambridge MIT Press, 2014.

A Grama, A Gupta, G Karypis, and V Kumar, Introduction to Parallel Computing. 2nd Ed., Addison-Wesley, 2003.

### Reference Books:

JL Hennessy and DA Patterson, Computer Architecture: A Quantitative Approach, 4th Ed., Morgan Kaufmann/Else India, 2006.

MJ Quinn, Parallel Computing: Theory and Practice, Tata McGraw Hill, 2002.

**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2021-22**

| S.NO | ROLL NO | NAME               | BRANCH | YEAR | VALUE ADDED COURSE   |
|------|---------|--------------------|--------|------|----------------------|
| 1    | 2105095 | MANDEEP KAUR       | MCA    | 1st  | PARALLEL PROGRAMMING |
| 2    | 2105096 | MANDEEP SINGH      | MCA    | 1st  | PARALLEL PROGRAMMING |
| 3    | 2105097 | MOHAMMAD ASIF LONE | MCA    | 1st  | PARALLEL PROGRAMMING |
| 4    | 2105099 | NIKUNJ GUPTA       | MCA    | 1st  | PARALLEL PROGRAMMING |
| 5    | 2105100 | PAVANDEEP KAUR     | MCA    | 1st  | PARALLEL PROGRAMMING |
| 6    | 2105101 | REEMA KUMARI       | MCA    | 1st  | PARALLEL PROGRAMMING |
| 7    | 2105102 | ROSHAL LAL         | MCA    | 1st  | PARALLEL PROGRAMMING |
| 8    | 2105103 | SHOWKAT AHMAD BHAT | MCA    | 1st  | PARALLEL PROGRAMMING |
| 9    | 2105105 | UMER FAROOQ MIR    | MCA    | 1st  | PARALLEL PROGRAMMING |
| 10   | 2105106 | VISHAL BHATIA      | MCA    | 1st  | PARALLEL PROGRAMMING |
| 11   | 2105142 | PRABHJOT KAUR      | MCA    | 1st  | PARALLEL PROGRAMMING |
| 12   | 2105143 | RAJ KUMAR          | MCA    | 1st  | PARALLEL PROGRAMMING |
| 13   | 2105144 | RIYA               | MCA    | 1st  | PARALLEL PROGRAMMING |
| 14   | 2105145 | SUPRIYA SHARMA     | MCA    | 1st  | PARALLEL PROGRAMMING |
| 15   | 2134685 | VANDNA KUMARI      | MCA    | 1st  | PARALLEL PROGRAMMING |

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OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

Resource Person

Head of Department

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Principal

Date of issue



## Academic Year 2021-22

### Activity organized Report

Date : 28.10.2021

|                               |                                                                                                                                                                                                                                                                                                                          |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                       |
| Title of Activity             | MOBILE WEB DEVELOPMENT                                                                                                                                                                                                                                                                                                   |
| Programme                     | MCA                                                                                                                                                                                                                                                                                                                      |
| Date of Commencement          | 22.07.2021                                                                                                                                                                                                                                                                                                               |
| Date of Completion            | 28.10.2021                                                                                                                                                                                                                                                                                                               |
| Place of activity             | B BLOCK B220                                                                                                                                                                                                                                                                                                             |
| No of participants Enrolled   | 20                                                                                                                                                                                                                                                                                                                       |
| No of participants completed  | 16                                                                                                                                                                                                                                                                                                                       |
| Course Coordinator and Expert | HARPREET KAUR                                                                                                                                                                                                                                                                                                            |
| Summary of activity           | The value added course for the odd Semester During the Academic Year 2021-22 was Successfully Organized .The Course On “MOBILE WEB DEVELOPMENT ” was covered .It Was aimed at various course students to understand mobile web technology .A total of 20 students registered for the course and 16 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                          |

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## Mobile App Development



### Web And Mobile App Development

We offers customized business sloution to meet your complex requirement through offshore development services.



value  
added  
course

Commencement from:- 10/1/2023

Coordinator:- Lovekesh  
Department of MCA

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IET/DEPT-----/7/8

Date : 28/7/2021

PRINCIPAL  
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ROPAR

**Permission For Conducting value added course and allocate faculty member for same**

It is to bring to your kind notice that following value added course is finalized For academic Year 2021-22-.The details of value added Course is as follow

| S.no | Name of Value Added Course | Class | Contact Hrs | Date of Commencement | Expert        |
|------|----------------------------|-------|-------------|----------------------|---------------|
| 1    | MOBILE WEB DEVELOPMENT     | MCA   | 30/45       | 28.07.2021           | HARPREET KAUR |
|      |                            |       |             |                      |               |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards  
*Harpreet*  
Course co-ordinator





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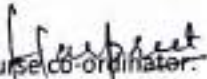
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DATE 28/7/2021.

IET

## NOTICE

It is for the information of all students of - That **MCA** department is conducting value added course entitled - **MOBILE WEB DEVELOPMENT** from -28/7/2021. The Course is scheduled for -45 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator.

  
Head of Department

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Head Of all Departments ( For Information)  
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Dept of MCA 2021-22

| DURATION 3HR |                    | ATTENDANCE SHEET FOR VALUE ADDED COURSES |      |      |                                       |        |       |      |       |      |      |      |       |                       |       |       |                                                                                                                                                                                                                                                                                                                                   |           |  |
|--------------|--------------------|------------------------------------------|------|------|---------------------------------------|--------|-------|------|-------|------|------|------|-------|-----------------------|-------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--|
| S.no         | Name               | 22/7                                     | 29/7 | 5/8/ | Name Of Course MOBILE WEB DEVELOPMENT |        |       |      |       |      |      |      |       | Course Duration 45HRS |       |       |                                                                                                                                                                                                                                                                                                                                   | SIGNATURE |  |
|              |                    |                                          |      |      | 12-Aug                                | 19-Aug | 8/26/ | 2/9/ | 9-Sep | 16/9 | 23/9 | 30/9 | 7/10/ | 14/10                 | 21/10 | 28/10 |                                                                                                                                                                                                                                                                                                                                   |           |  |
| 1            | ABHISHEK           | 1                                        | 2    | ab   | 3                                     | AB     | 4     | 5    | 6     | AB   | AB   | 7    | 8     | 9                     | AB    | 10    | <div>Abhishek</div> <div>Amandeep B</div> <div>Aqib Naseer</div> <div>Harpreet B</div> <div>Harsh</div> <div>Nikunj</div> <div>Pavandeep Kaur</div> <div>Reema</div> <div>Showkat Bhat</div> <div>Umer</div> <div>Vishal Bhatia</div> <div>Bharti Soni</div> <div>Deepanshu</div> <div>Jyoti Devi</div> <div>Kirandeep Kaur</div> |           |  |
| 2            | AMANDEEP KAUR      | AB                                       | 1    | 2    | 3                                     | 4      | AB    | AB   | 5     | 6    | 7    | 8    | 9     | 10                    | 11    | AB    |                                                                                                                                                                                                                                                                                                                                   |           |  |
| 3            | AQIB NASEER        | 1                                        | AB   | 3    | AB                                    | 4      | 5     | 6    | AB    | 7    | 8    | AB   | 9     | 10                    | 11    | AB    |                                                                                                                                                                                                                                                                                                                                   |           |  |
| 4            | HARPREET KAUR      | 1                                        | 2    | 3    | 4                                     | 5      | 6     | 7    | AB    | 8    | AB   | 9    | 10    | AB                    | 11    | 12    |                                                                                                                                                                                                                                                                                                                                   |           |  |
| 5            | HARSH DHIMAN       | 1                                        | 2    | ab   | 3                                     | AB     | 4     | 5    | 6     | AB   | 9    | 10   | AB    | AB                    | 11    | 12    |                                                                                                                                                                                                                                                                                                                                   |           |  |
| 6            | MANDEEP KAUR       | AB                                       | 1    | 2    | 3                                     | 4      | AB    | AB   | 5     | 6    | AB   | AB   | 7     | 8                     | 9     | AB    |                                                                                                                                                                                                                                                                                                                                   |           |  |
| 7            | MANDEEP SINGH      | 1                                        | AB   | 3    | AB                                    | 4      | 5     | 6    | AB    | 7    | 8    | AB   | 9     | 10                    | 11    | AB    |                                                                                                                                                                                                                                                                                                                                   |           |  |
| 8            | MOHAMMAD ASIF      | 1                                        | 2    | 3    | 4                                     | 5      | 6     | 7    | AB    | 8    | AB   | 9    | 10    | 11                    | AB    | 12    |                                                                                                                                                                                                                                                                                                                                   |           |  |
| 9            | NIKUNJ GUPTA       | 1                                        | AB   | 3    | AB                                    | 4      | 5     | 6    | 7     | 8    | AB   | 9    | 10    | AB                    | 11    | 12    |                                                                                                                                                                                                                                                                                                                                   |           |  |
| 10           | PAVANDEEP KAUR     | 1                                        | 2    | 3    | 4                                     | 5      | 6     | 7    | AB    | 8    | AB   | 9    | 10    | AB                    | 11    | 12    |                                                                                                                                                                                                                                                                                                                                   |           |  |
| 11           | REEMA KUMARI       | 1                                        | 2    | ab   | 3                                     | AB     | 4     | 5    | 6     | AB   | 9    | 10   | AB    | AB                    | 11    | 12    |                                                                                                                                                                                                                                                                                                                                   |           |  |
| 12           | ROSHAL LAL         | AB                                       | 1    | 2    | 3                                     | 4      | AB    | AB   | 5     | 6    | AB   | AB   | 7     | 8                     | 9     | AB    |                                                                                                                                                                                                                                                                                                                                   |           |  |
| 13           | SHOWKAT AHMAD BHAT | 1                                        | 2    | ab   | 3                                     | AB     | 4     | 5    | 6     | AB   | AB   | 7    | 8     | 9                     | 10    | AB    |                                                                                                                                                                                                                                                                                                                                   |           |  |
| 14           | UMER FARDOQ MIR    | AB                                       | 1    | 2    | 3                                     | 4      | AB    | 5    | 6     | AB   | AB   | 7    | 8     | 9                     | 10    | AB    |                                                                                                                                                                                                                                                                                                                                   |           |  |
| 15           | VISHAL BHATIA      | 1                                        | AB   | 3    | AB                                    | 4      | AB    | AB   | 5     | 6    | 7    | 8    | 9     | 10                    | AB    | 12    |                                                                                                                                                                                                                                                                                                                                   |           |  |
| 16           | BHARTI SONI        | 1                                        | 2    | 3    | 4                                     | 5      | 6     | 7    | AB    | 8    | AB   | 9    | 10    | AB                    | 11    | 12    |                                                                                                                                                                                                                                                                                                                                   |           |  |
| 17           | DEEPANSHU TANDOU   | 1                                        | 2    | ab   | 3                                     | AB     | 4     | 5    | 6     | AB   | 7    | 8    | 9     | 10                    | AB    | 12    |                                                                                                                                                                                                                                                                                                                                   |           |  |
| 18           | JATIN GAUTAM       | AB                                       | 1    | 2    | 3                                     | 4      | AB    | 5    | 6     | AB   | AB   | 7    | 8     | 9                     | AB    | 10    |                                                                                                                                                                                                                                                                                                                                   |           |  |
| 19           | JYOTI DEVI         | 1                                        | AB   | 3    | AB                                    | 4      | AB    | AB   | 5     | 6    | AB   | AB   | 7     | 8                     | 9     | AB    |                                                                                                                                                                                                                                                                                                                                   |           |  |
| 20           | KIRANDEEP KAUR     | 1                                        | 2    | 3    | 4                                     | 5      | 6     | 7    | 8     | AB   | 9    | 10   | AB    | AB                    | 11    | 12    |                                                                                                                                                                                                                                                                                                                                   |           |  |

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# MOBILE WEB DEVELOPMENT

## SYLLABUS

### COURSE OVERVIEW:

This course is concerned with the development of applications on mobile and wireless computing platforms. Android will be used as a basis for teaching programming techniques and design patterns related to the development of standalone applications and mobile portals to enterprise and mcommerce systems. Emphasis is placed on the processes, tools and frameworks required to develop applications for current and emerging mobile computing devices. Students will work at all stages of the software development life-cycle from inception through to implementation and testing. In doing so, students will be required to consider the impact of user characteristics, device capabilities, networking infrastructure and deployment environment, in order to develop software capable of meeting the requirements of stakeholders.

### COURSE OBJECTIVES:

1. To facilitate students to understand android SDK
2. To help students to gain a basic understanding of Android application development
3. To inculcate working knowledge of Android Studio development tool

### COURSE OUTCOMES:

At the end of this course, students will be able to:

1. Identify various concepts of mobile programming that make it unique from programming for other platforms,
2. Critique mobile applications on their design pros and cons,
3. Utilize rapid prototyping techniques to design and develop sophisticated mobile interfaces,
4. Program mobile applications for the Android operating system that use basic and advanced phone features, and
5. Deploy applications to the Android marketplace for distribution.

## SYLLABUS

### UNIT - I

Introduction to Android: The Android Platform, Android SDK, Eclipse Installation, Android Installation, Building you First Android application, Understanding Anatomy of Android Application, Android Manifest file.

### UNIT - II

Android Application Design Essentials: Anatomy of an Android applications, Android terminologies, Application Context, Activities, Services, Intents, Receiving and Broadcasting Intents, Android Manifest File and its common settings, Using Intent Filter, Permissions.

### UNIT - III

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Android User Interface Design Essentials: User Interface Screen elements, Designing User Interfaces with Layouts, Drawing and Working with Animation.

#### **UNIT - IV**

Testing Android applications, Publishing Android application, Using Android preferences, Managing Application resources in a hierarchy, working with different types of resources.

#### **UNIT - V**

Using Common Android APIs: Using Android Data and Storage APIs, Managing data using Sqlite, Sharing Data between Applications with Content Providers, Using Android Networking APIs, Using Android Web APIs, Using Android Telephony APIs, Deploying Android Application to the World.

#### **TEXT BOOKS:**

1. T1. Lauren Darcey and Shane Conder, “Android Wireless Application Development”, Pearson Education, 2nd ed. (2011)

#### **REFERENCE BOOKS:**

1. R1. Reto Meier, “Professional Android 2 Application Development”, Wiley India Pvt Ltd
2. R2. Mark L Murphy, “Beginning Android”, Wiley India Pvt Ltd
3. R3. Android Application Development All in one for Dummies by Barry Burd, Edition: I

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2021-22**

| S.NO | ROLL NO | NAME               | BRANCH | YEAR | VALUE ADDED COURSE     |
|------|---------|--------------------|--------|------|------------------------|
| 1    | 2105088 | ABHISHEK           | MCA    | 1ST  | MOBILE WEB DEVELOPMENT |
| 2    | 2105089 | AMANDEEP KAUR      | MCA    | 1ST  | MOBILE WEB DEVELOPMENT |
| 3    | 2105091 | AQIB NASEER        | MCA    | 1ST  | MOBILE WEB DEVELOPMENT |
| 4    | 2105092 | HARPREET KAUR      | MCA    | 1ST  | MOBILE WEB DEVELOPMENT |
| 5    | 2105093 | HARSH DHIMAN       | MCA    | 1ST  | MOBILE WEB DEVELOPMENT |
| 6    | 2105095 | MANDEEP KAUR       | MCA    | 1ST  | MOBILE WEB DEVELOPMENT |
| 7    | 2105096 | MANDEEP SINGH      | MCA    | 1ST  | MOBILE WEB DEVELOPMENT |
| 8    | 2105097 | MOHAMMAD ASIF LONE | MCA    | 1ST  | MOBILE WEB DEVELOPMENT |
| 9    | 2105099 | NIKUNJ GUPTA       | MCA    | 1ST  | MOBILE WEB DEVELOPMENT |
| 10   | 2105100 | PAVANDEEP KAUR     | MCA    | 1ST  | MOBILE WEB DEVELOPMENT |
| 11   | 2105101 | REEMA KUMARI       | MCA    | 1ST  | MOBILE WEB DEVELOPMENT |
| 12   | 2105102 | ROSHAL LAL         | MCA    | 1ST  | MOBILE WEB DEVELOPMENT |
| 13   | 2105103 | SHOWKAT AHMAD BHAT | MCA    | 1ST  | MOBILE WEB DEVELOPMENT |
| 14   | 2105105 | UMER FAROOQ MIR    | MCA    | 1ST  | MOBILE WEB DEVELOPMENT |
| 15   | 2105106 | VISHAL BHATIA      | MCA    | 1ST  | MOBILE WEB DEVELOPMENT |
| 16   | 2034521 | BHARTI SONI        | MCA    | 2ND  | MOBILE WEB DEVELOPMENT |
| 17   | 2034519 | DEEPANSHU TANDOU   | MCA    | 2ND  | MOBILE WEB DEVELOPMENT |
| 18   | 2006462 | JATIN GAUTAM       | MCA    | 2ND  | MOBILE WEB DEVELOPMENT |
| 19   | 2006463 | JYOTI DEVI         | MCA    | 2ND  | MOBILE WEB DEVELOPMENT |
| 20   | 2006464 | KIRANDEEP KAUR     | MCA    | 2ND  | MOBILE WEB DEVELOPMENT |





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OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

## Academic Year 2021-22

### Activity organized Report

Date : 21.10.2021

|                               |                                                                                                                                                                                                                                                                                                                                |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                             |
| Title of Activity             | 2d and 3d modelling in solid Edge                                                                                                                                                                                                                                                                                              |
| Programme                     | Engg and Arch                                                                                                                                                                                                                                                                                                                  |
| Date of Commencement          | 15.07.2021                                                                                                                                                                                                                                                                                                                     |
| Date of Completion            | 21.10.2021                                                                                                                                                                                                                                                                                                                     |
| Place of activity             | A004                                                                                                                                                                                                                                                                                                                           |
| No of participants Enrolled   | 20                                                                                                                                                                                                                                                                                                                             |
| No of participants completed  | 17                                                                                                                                                                                                                                                                                                                             |
| Course Coordinator and Expert | GURPREET SINGH                                                                                                                                                                                                                                                                                                                 |
| Summary of activity           | The value added course for the ODD Semester During the Academic Year 2021-22 was Successfully Organized .The Course On “2D AND 3D MODELLING IN SOLID EDGE” was covered .It Was aimed at various course students to understand 2d and 3d drawing .A total of 20 students registered for the course and 17 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                                |

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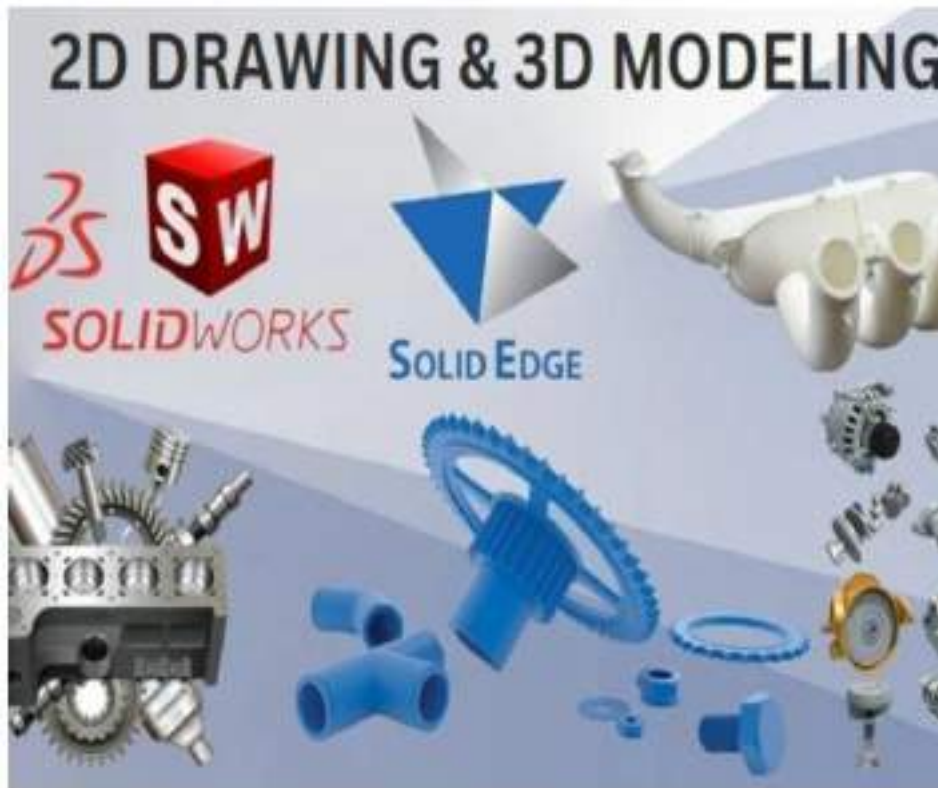


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## 2d & 3d Modelling



Value  
Added  
Course

Commencement from:- 15/7/2021

**Coordinator:- Gurpreet Singh**  
**Department of Architecture**

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IET/DEPT BArch/219

Date : 15/7/2021

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ROPAR

**Permission For Conducting value added course and allocate faculty member for same**

It is to bring to your kind notice that following value added course is finalized For academic Year 2023-24-.The details of value added Course is as follow

| S.no | Name of Value Added Course        | Class           | Contact Hrs | Date of Commencement | Expert         |
|------|-----------------------------------|-----------------|-------------|----------------------|----------------|
| 1    | 2d and 3d modelling in solid Edge | ME,Civil,B.Arch | 30/45       | 15.7.2021            | GURPREET SINGH |
|      |                                   |                 |             |                      |                |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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*(Signature)*  
Thanks and Regards  
Course co-ordinator



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IET/VAC/BArch/109

DATE 15/7/2021

## NOTICE

It is for the information of all students of - That BArch department is conducting value added course entitled -2d and 3d modelling in solid Edge. from -15/7/2021. The Course is scheduled for -30 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course Co-ordinator:

  
Head of Department

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# ATTENDANCE SHEET FOR VALUE ADDED COURSES

221 Dept. of Arch  
2021-22

| DURATION 3HRS/WEEK |                        | Name Of Course 2d and 3d modelling in solid Edge |      |      |       |      |      |      |       |       |      |      |      | Course Duration 45 HRS |        |       | SIGNATURE         |
|--------------------|------------------------|--------------------------------------------------|------|------|-------|------|------|------|-------|-------|------|------|------|------------------------|--------|-------|-------------------|
| S.no               | Name                   | 15/7                                             | 22/7 | 29/7 | 5-Aug | 12/8 | 19/8 | 27/8 | 2-Sep | 9-Sep | 16/9 | 23/9 | 30/9 | 7-Oct                  | 14-Oct | 21/10 |                   |
| 1                  | MEHAK ARORA            | 1                                                | 2    | 3    | 4     | ab   | ab   | 5    | 6     | 7     | ab   | 8    | ab   | 9                      | 10     | 11    | Mehak Arora       |
| 2                  | NANDINI SINGH          | 1                                                | 2    | 3    | ab    | 4    | 5    | ab   | 6     | ab    | 7    | 8    | 9    | ab                     | 10     | 11    | Nandini Singh     |
| 3                  | PANDAY RAHUL KEDARNATH | 1                                                | ab   | ab   | 2     | 3    | 4    | 5    | ab    | 6     | 7    | ab   | 8    | 9                      | ab     | 10    | Panday Rahul      |
| 4                  | POONAM THAKUR          | ab                                               | 1    | 2    | 3     | 4    | 5    | 16/9 | 7     | ab    | 8    | 9    | 10   | 11                     | 12     | ab    | Poonam Thakur     |
| 5                  | PRANSHU                | 1                                                | ab   | ab   | 2     | 3    | 4    | 5    | ab    | 6     | 7    | ab   | 8    | 9                      | ab     | 10    |                   |
| 6                  | RASHIKA                | ab                                               | 1    | 2    | 3     | 4    | 5    | 6    | 7     | ab    | 8    | 9    | 10   | 11                     | 12     | ab    | Rashika           |
| 7                  | SALEEM MAJEED          | not registered                                   |      |      |       |      |      |      |       |       |      |      |      |                        |        |       | Saleem Majeed     |
| 8                  | SAURAV DIWAN           | 1                                                | 2    | 3    | 4     | ab   | ab   | 5    | 6     | 7     | ab   | 8    | ab   | 9                      | 10     | 11    | Saurav Diwan      |
| 9                  | KUSHAL BHALWAL         | 1                                                | 2    | 3    | ab    | 4    | 5    | ab   | 6     | ab    | 7    | 8    | 9    | ab                     | 10     | 11    | Kushal Bhalwal    |
| 10                 | MANISHA DEVI           | 1                                                | ab   | ab   | 2     | 3    | 4    | 5    | ab    | 6     | 7    | ab   | 8    | 9                      | ab     | 10    | Manisha Devi      |
| 11                 | PRINCEDEEP SINGH       | ab                                               | 1    | 2    | 3     | 4    | 5    | 6    | 7     | ab    | 8    | 9    | 10   | 11                     | 12     | ab    | Prince Deep Singh |
| 12                 | SHEIKH UMMAR           | not registered                                   |      |      |       |      |      |      |       |       |      |      |      |                        |        |       | Sheikh Umar       |
| 13                 | PRERNA SHARMA          | 1                                                | 2    | 3    | 4     | ab   | ab   | 5    | 6     | 7     | ab   | 8    | ab   | 9                      | 10     | 11    | Prerna Sharma     |
| 14                 | ROHIT THAKUR           | 1                                                | 2    | 3    | ab    | 4    | 5    | ab   | 6     | ab    | 7    | 8    | 9    | ab                     | 10     | 11    | Rohit Thakur      |
| 15                 | SHEKHAR                | 1                                                | ab   | ab   | 2     | 3    | 4    | 5    | ab    | 6     | 7    | ab   | 8    | 9                      | ab     | 10    | Shekhar           |
| 16                 | SHIVJEET SINGH         | ab                                               | 1    | 2    | 3     | 4    | 5    | 6    | 7     | ab    | 8    | 9    | 10   | 11                     | 12     | ab    | Shivjeet Singh    |
| 17                 | SIKAS BATTA            | 1                                                | ab   | ab   | 2     | 3    | 4    | 5    | ab    | 6     | 7    | ab   | 8    | 9                      | ab     | 10    | Sikas Batta       |
| 18                 | HARPREET SAINI         | ab                                               | 1    | 2    | 3     | 4    | 5    | 6    | 7     | ab    | 8    | 9    | 10   | 11                     | 12     | ab    | Harpreet Saini    |
| 19                 | NABIL MAMJI            | not registered                                   |      |      |       |      |      |      |       |       |      |      |      |                        |        |       | Nabil Mamji       |
| 20                 | RITIK KUMAR            | 1                                                | 2    | 3    | 4     | ab   | ab   | 5    | 6     | 7     | ab   | 8    | ab   | 9                      | 10     | 11    | Ritik Kumar       |

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# 2D AND 3D MODELLING IN SOLID EDGE

## SYLLABUS

### Group - A

#### Module 1 Computer-based Animation&Getting Started with Max

Definition of Computer-based Animation,Basic Types of Animation: Real Time ,Non-real-time, Definition of Modelling,Creation of 3D objects.Exploring the Max Interface, Controlling & Configuring the Viewports, Customizing the Max Interface & Setting Preferences,Working with Files, Importing & Exporting, Selecting Objects &Setting Object Properties, Duplicating Objects, Creating & Editing Standard Primitive & extended Primitives objects,Transforming objects, Pivoting, aligning etc.

8

#### Module 2 2D Splines& Shapes& compound object

Understanding 2D Splines& shape, Extrude & Bevel 2Dobject to 3D, Understanding Loft & terrain, Modeling simple 4

objects with splines, Understanding morph, scatter, conform,connect compound objects, blobmesh, Boolean ,Proboolean&procutter compound object

### Group -B

#### Module3 3DModellingModeling with Polygons, using the graphite, working with

XRefs, Building simple scenes, Building complex scenes withXRefs, using assets tracking, deforming surfaces & using themesh modifiers, modeling with patches & NURBS

8

#### Module 4 Keyframe Animation Creating Keyframes, Auto Keyframes, Move & Scale

Keyframe on the timeline, Animating with constraints &simple controllers, animation Modifiers & complex controllers, function curves in the track view, motion mixeretc.

8

### Group - C

#### Module 5 Simulation & Effects

Bind to Space Warp object, Gravity, wind, displace forceobject, deflectors, FFD space warp, wave, ripple, bomb,

Creating particle system through parray, understandingparticle flow user interface, how to particle flow works, hair

& fur modifier, cloth & garment maker modifiers etc.

8

#### Module 6 Lighting& Camera

Configuring & Aiming Cameras, camera motion blur, cameradepth of field, camera tracking, using basic lights &lightingTechniques, working with advanced lighting, Light Tracing, Radiosity, video post, mental ray lighting etc.

8

### Group - D



Module 7 Texturing with Max Using the material editor & the material explorer, creating & applying standard materials, adding material details with maps, creating compound materials & material modifiers, unwrapping UVs & mapping texture, using atmospheric & render effects etc.

Module 8 Rendering with V-Ray V-ray light setup, V-ray rendering settings, HDRI Illumination, Fine-tuning shadows, Final render setting etc

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2021-22**

| S.NO | ROLL NO | NAME                   | BRANCH     | YEAR | VALUE ADDED COURSE                |
|------|---------|------------------------|------------|------|-----------------------------------|
| 1    | 1708058 | MEHAK ARORA            | B.arch     | 5th  | 2d and 3d modelling in solid Edge |
| 2    | 1708059 | NANDINI SINGH          | B.arch     | 5th  | 2d and 3d modelling in solid Edge |
| 3    | 1708060 | PANDAY RAHUL KEDARNATH | B.arch     | 5th  | 2d and 3d modelling in solid Edge |
| 4    | 1708061 | POONAM THAKUR          | B.arch     | 5th  | 2d and 3d modelling in solid Edge |
| 5    | 1708062 | PRANSHU                | B.arch     | 5th  | 2d and 3d modelling in solid Edge |
| 6    | 1708063 | RASHIKA CHAUDHARY      | B.arch     | 5th  | 2d and 3d modelling in solid Edge |
| 7    | 1708064 | SALEEM MAJEED NAJAR    | B.arch     | 5th  | 2d and 3d modelling in solid Edge |
| 8    | 1708065 | SAURAV DIWAN           | B.arch     | 5th  | 2d and 3d modelling in solid Edge |
| 9    | 1906412 | KUSHAL BHALWAL         | B.TECH CSE | 3rd  | 2d and 3d modelling in solid Edge |
| 10   | 1906413 | MANISHA DEVI           | B.TECH CSE | 3rd  | 2d and 3d modelling in solid Edge |
| 11   | 1906414 | PRINCEDEEP SINGH       | B.TECH CSE | 3rd  | 2d and 3d modelling in solid Edge |
| 12   | 1906416 | SHEIKH UMMAR SAROOQ    | B.TECH CSE | 3rd  | 2d and 3d modelling in solid Edge |
| 13   | 1906442 | PRERNA SHARMA          | B.Tech ME  | 3rd  | 2d and 3d modelling in solid Edge |
| 14   | 1934518 | ROHIT THAKUR           | B.Tech ME  | 3rd  | 2d and 3d modelling in solid      |

|    |         |                |              |     |                                   |
|----|---------|----------------|--------------|-----|-----------------------------------|
|    |         |                |              |     | Edge                              |
| 15 | 1906444 | SHEKHAR        | B.Tech ME    | 3rd | 2d and 3d modelling in solid Edge |
| 16 | 1906445 | SHIVJEET SINGH | B.Tech ME    | 3rd | 2d and 3d modelling in solid Edge |
| 17 | 1934517 | SIKAS BATTIA   | B.Tech ME    | 3rd | 2d and 3d modelling in solid Edge |
| 18 | 1906400 | HARPREET SAINI | B.tech civil | 3rd | 2d and 3d modelling in solid Edge |
| 19 | 1906401 | NABIL MAMJI    | B.tech civil | 3rd | 2d and 3d modelling in solid Edge |
| 20 | 1906402 | RITIK KUMAR    | B.tech civil | 3rd | 2d and 3d modelling in solid Edge |

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## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**



## Academic Year 2021-22

### Activity organized Report

Date : 29.10.2021

|                               |                                                                                                                                                                                                                                                                                                          |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                       |
| Title of Activity             | DEEP LEARNING                                                                                                                                                                                                                                                                                            |
| Programme                     | MCA,M.TECH                                                                                                                                                                                                                                                                                               |
| Date of Commencement          | 23.07.2021                                                                                                                                                                                                                                                                                               |
| Date of Completion            | 29.10.2021                                                                                                                                                                                                                                                                                               |
| Place of activity             | B108                                                                                                                                                                                                                                                                                                     |
| No of participants Enrolled   | 13                                                                                                                                                                                                                                                                                                       |
| No of participants completed  | 11                                                                                                                                                                                                                                                                                                       |
| Course Coordinator and Expert | RAMANDEEP KAUR                                                                                                                                                                                                                                                                                           |
| Summary of activity           | The value added course for the odd Semester During the Academic Year 2021-22 was Successfully Organized .The Course On “ DEEP LEARNING ” was covered .It Was aimed at various course students to understand deep learning .A total of 13 students registered for the course and 11 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                          |

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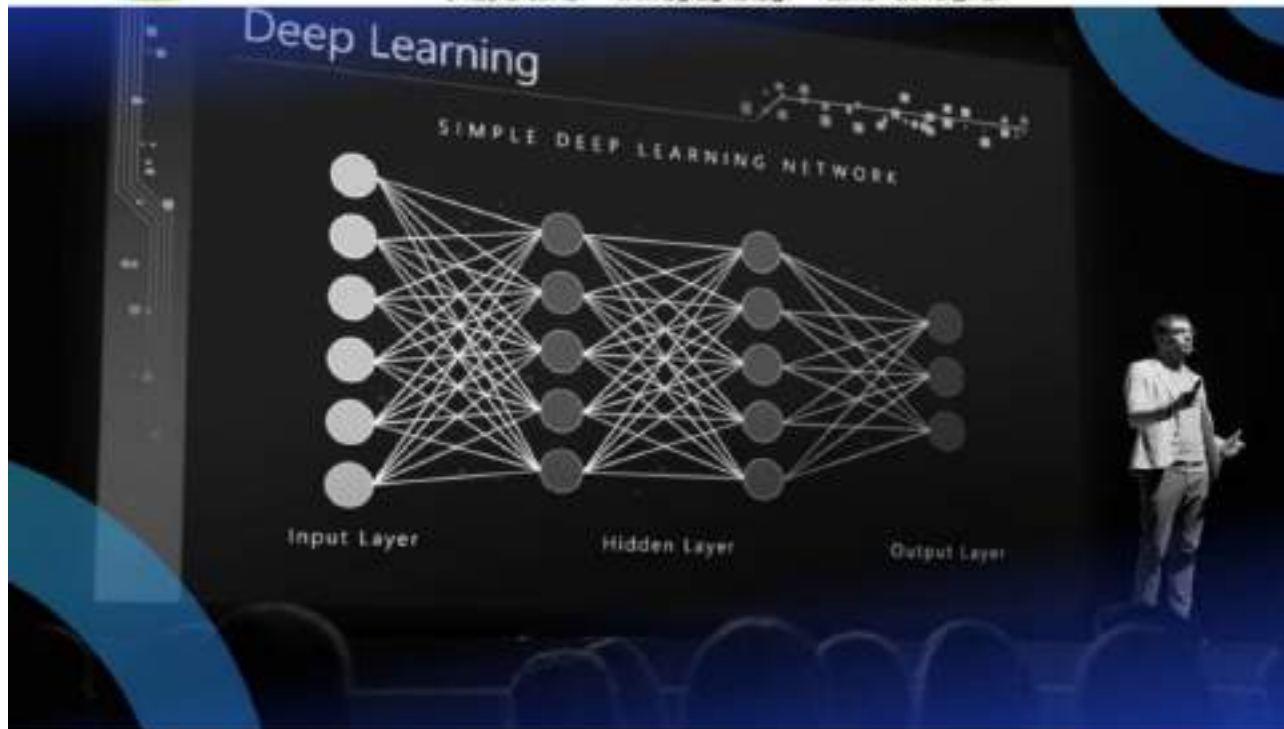
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# DEEP LEARNING

*Value Added Course*



*Commencement  
from:- 23/7/2021*

*Coordinator:- Ramandeep Kaur  
Department of Computer Science  
Engineering*

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IET/DEPT MCA-199

Date : 23/7/2021

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Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2021-22-.The details of value added Course is as follow

| S.no | Name of Value Added Course | Class      | Contact Hrs | Date of Commencement | Expert         |
|------|----------------------------|------------|-------------|----------------------|----------------|
| 1    | DEEP LEARNING              | MCA,M.TECH | 30/45       | 23.7.2021            | RAMANDEEP KAUR |
|      |                            |            |             |                      |                |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

*Ramandeep Kaur*  
course co-ordinator

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Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)







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IET/VAC/MCA/018

DATE 23/7/2021

## NOTICE

It is for the information of all students of - That **MCA** department is conducting value added course entitled – **DEEP LEARNING** from –23/7/2021. The Course is scheduled for -45 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

  
Head of Department

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Cc : principal ( For Kind information please)  
Head Of all Departments ( For Information)  
IQAC  
ALL the notice boards

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Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
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Dept of MCA

2021-22

| DURATION 3HRS/WEEK |                 |      |      |      |      | ATTENDANCE SHEET FOR VALUE ADDED COURSES |      |      |        |        |        |       |       |       |       |       |                    |  |
|--------------------|-----------------|------|------|------|------|------------------------------------------|------|------|--------|--------|--------|-------|-------|-------|-------|-------|--------------------|--|
| S.no               | Name            | 23/7 | 30/7 | 6/8/ | 13/8 | 20/8                                     | 27/8 | 3/9/ | 10-Sep | 17-Sep | 24-Sep | 1/10/ | 8/10/ | 15/10 | 22/10 | 29/10 | Total attendance % |  |
| 1                  | AMANPREET KAUR  | 1    | 2    | ab   | 3    | AB                                       | 4    | 5    | 6      | AB     | AB     | 7     | 8     | 9     | AB    | 10    | Amanpreet Kaur     |  |
| 2                  | HARPREET        | AB   | 1    | 2    | 3    | 4                                        | AB   | AB   | 5      | 6      | 7      | 8     | 9     | 10    | 11    | AB    | Harpreet           |  |
| 3                  | ABHJEET SINGH   | 1    | AB   | 3    | AB   | 4                                        | 5    | 6    | AB     | 7      | 8      | AB    | 9     | AB    | AB    | 10    | Abhjeet Singh      |  |
| 4                  | ABHISHEK THAKUR | 1    | 2    | 3    | 4    | 5                                        | 6    | 7    | 8      | AB     | 9      | 10    | AB    | AB    | 11    | 12    | Abhishek Thakur    |  |
| 5                  | AKASHDEEP SINGH | 1    | 2    | ab   | 3    | AB                                       | 4    | 5    | 6      | AB     | AB     | 7     | 8     | 9     | AB    | 10    | Akashdeep Singh    |  |
| 6                  | AKRITI          | AB   | 1    | 2    | 3    | 4                                        | AB   | AB   | 5      | 6      | 7      | 8     | 9     | 10    | 11    | AB    | Akriti             |  |
| 7                  | AMIT KUMAR      | 1    | AB   | 3    | AB   | 4                                        | 5    | 6    | AB     | 7      | 8      | AB    | 9     | AB    | 10    | 11    | Amit Kumar         |  |
| 8                  | AMRINDER SINGH  | 1    | 2    | 3    | 4    | 5                                        | 6    | 7    | 8      | AB     | 9      | 10    | AB    | AB    | 11    | 12    | Amrinder Singh     |  |
| 9                  | ANKIT KAUL      | 1    | AB   | 3    | AB   | 4                                        | 5    | 6    | AB     | 7      | 8      | AB    | 9     | AB    | AB    | 10    | Ankit Kaul         |  |
| 10                 | ANOOP KUMAR     | 1    | 2    | 3    | 4    | 5                                        | 6    | 7    | 8      | AB     | 9      | 10    | AB    | AB    | 11    | 12    | Anoop Kumar        |  |
| 11                 | ATUL KUMAR      | 1    | 2    | ab   | 3    | AB                                       | 4    | 5    | 6      | AB     | AB     | 7     | 8     | 9     | AB    | 10    | Atul Kumar         |  |
| 12                 | DALBIR SINGH    | AB   | 1    | 2    | 3    | 4                                        | AB   | AB   | 5      | 6      | 7      | 8     | 9     | 10    | 11    | AB    | Dalbir Singh       |  |
| 13                 | DILBAG SINGH    | 1    | 2    | ab   | 3    | AB                                       | 4    | 5    | 6      | AB     | AB     | 7     | 8     | 9     | AB    | 10    | Dilbag Singh       |  |

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# DEEP LEARNING

## SYLLABUS

### Course layout

Week 1: Introduction to Deep Learning, Bayesian Learning, Decision Surfaces

Week 2: Linear Classifiers, Linear Machines with Hinge Loss

Week 3: Optimization Techniques, Gradient Descent, Batch Optimization

Week 4: Introduction to Neural Network, Multilayer Perceptron, Back Propagation Learning

Week 5: Unsupervised Learning with Deep Network, Autoencoders

Week 6: Convolutional Neural Network, Building blocks of CNN, Transfer Learning

Week 7: Revisiting Gradient Descent, Momentum Optimizer, RMSProp, Adam

Week 8: Effective training in Deep Net- early stopping, Dropout, Batch Normalization, Instance Normalization, Group Normalization

Week 9: Recent Trends in Deep Learning Architectures, Residual Network, Skip Connection Network, Fully Connected CNN etc.

Week 10: Classical Supervised Tasks with Deep Learning, Image Denoising, Semantic Segmentation, Object Detection etc.

Week 11: LSTM Networks

Week 12: Generative Modeling with DL, Variational Autoencoder, Generative Adversarial Network Revisiting Gradient Descent, Momentum Optimizer, RMSProp, Adam

### Books and references

1. Deep Learning- Ian Goodfellow, Yoshua Benjio, Aaron Courville, The MIT Press

2. Pattern Classification- Richard O. Duda, Peter E. Hart, David G. Stork, John Wiley & Sons Inc.

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2021-22**

| S.NO | ROLL NO | NAME            | BRANCH     | YEAR | VALUE ADDED COURSE |
|------|---------|-----------------|------------|------|--------------------|
| 1    | 2005330 | AMANPREET KAUR  | MCA        | 2ND  | DEEP LEARNING      |
| 2    | 2005331 | HARPREET KAUR   | MCA        | 2ND  | DEEP LEARNING      |
| 3    | 1806944 | ABHIJEET SINGH  | B.TECH CSE | 4TH  | DEEP LEARNING      |
| 4    | 1806945 | ABHISHEK THAKUR | B.TECH CSE | 4TH  | DEEP LEARNING      |
| 5    | 1806946 | AKASHDEEP SINGH | B.TECH CSE | 4TH  | DEEP LEARNING      |
| 6    | 1806947 | AKRITI          | B.TECH CSE | 4TH  | DEEP LEARNING      |
| 7    | 1806949 | AMIT KUMAR      | B.TECH CSE | 4TH  | DEEP LEARNING      |
| 8    | 1806950 | AMRINDER SINGH  | B.TECH CSE | 4TH  | DEEP LEARNING      |
| 9    | 1806951 | ANKIT KAUL      | B.TECH CSE | 4TH  | DEEP LEARNING      |
| 10   | 1806952 | ANOOB KUMAR     | B.TECH CSE | 4TH  | DEEP LEARNING      |
| 11   | 1806955 | ATUL KUMAR      | B.TECH CSE | 4TH  | DEEP LEARNING      |
| 12   | 1806957 | DALBIR SINGH    | B.TECH CSE | 4TH  | DEEP LEARNING      |
| 13   | 1806958 | DILBAG SINGH    | B.TECH CSE | 4TH  | DEEP LEARNING      |

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## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**



## Academic Year 2021-22

### Activity organized Report

Date : 05.11.2021

|                               |                                                                                                                                                                                                                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                 |
| Title of Activity             | ETHICAL HACKING                                                                                                                                                                                                                                                                                    |
| Programme                     | BTECH,MTECH                                                                                                                                                                                                                                                                                        |
| Date of Commencement          | 23.07.2021                                                                                                                                                                                                                                                                                         |
| Date of Completion            | 05.11.2021                                                                                                                                                                                                                                                                                         |
| Place of activity             | B221                                                                                                                                                                                                                                                                                               |
| No of participants Enrolled   | 15                                                                                                                                                                                                                                                                                                 |
| No of participants completed  | 12                                                                                                                                                                                                                                                                                                 |
| Course Coordinator and Expert | GURPREET KAUR                                                                                                                                                                                                                                                                                      |
| Summary of activity           | The value added course for the odd Semester During the Academic Year 2021-22 was Successfully Organized .The Course On “ETHICAL HACKING ” was covered .It Was aimed at various course students to understand hacking .A total of 15 students registered for the course and 12completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                    |

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# Ethical Hacking



**value added course**

**Commencement  
From:-  
23/7/2021**

**Coordinator:- Gurpreet  
Kaur**

**Department of Computer Science & Engineering**

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IET/DEPT CSE/319.

Date : 23/7/2021.

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**Permission For Conducting value added course and allocate faculty member for same**

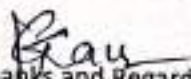
It is to bring to your kind notice that following value added course is finalized For academic Year 2021-22-.The details of value added Course is as follow

| S.no | Name of Value Added Course | Class       | Contact Hrs | Date of Commencement | Expert        |
|------|----------------------------|-------------|-------------|----------------------|---------------|
| 1    | ETHICAL HACKING            | BTECH,MTECH | 30/45       | 23.07.2021           | GURPREET KAUR |
|      |                            |             |             |                      |               |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

Course co-ordinator





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23/7/2021,

IET

## NOTICE

It is for the information of all students of - That ~~SET~~ department is conducting value added course entitled – ETHICAL HACKING from –23/7/2021. The Course is scheduled for -30 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 75% attendance

  
Course co-ordinator;

  
Head of Department

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Head Of all Departments ( For Information)  
IQAC  
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Dept of CSB

2021-22

| DURATION 3 HRS/WEEK |             | ATTENDANCE SHEET FOR VALUE ADDED COURSES |      |      |        |      |                                |      |        |        |        |                       |       |       |       |       |             |  |
|---------------------|-------------|------------------------------------------|------|------|--------|------|--------------------------------|------|--------|--------|--------|-----------------------|-------|-------|-------|-------|-------------|--|
| S.no                | Name        | 23/7                                     | 30/7 | #### | 13-Aug | #### | Name Of Course ETHICAL HACKING |      |        |        |        | Course Duration 45HRS |       |       |       |       | SIGNATURE   |  |
|                     |             |                                          |      |      |        |      | 27/8                           | 3/9/ | 10-Sep | 17-Sep | 24-Sep | 1/10/                 | 8/10/ | 15/10 | 22/10 | 29/10 |             |  |
| 1                   | PRABHJOT    | 1                                        | 2    | ab   | 3      | AB   | 4                              | 5    | 6      | AB     | AB     | 7                     | 8     | 9     | AB    | 10    | Prabhjot    |  |
| 2                   | RAJ KUMAR   | AB                                       | 1    | 2    | 3      | 4    | AB                             | AB   | 5      | 6      | 7      | 8                     | 9     | 10    | 11    | AB    | Raj Kumar   |  |
| 3                   | RIYA        | 1                                        | AB   | 3    | AB     | 4    | 5                              | 6    | AB     | 7      | 8      | AB                    | 9     | AB    | 10    | 11    | Riya        |  |
| 4                   | SUPRIYA     | 1                                        | 2    | 3    | 4      | 5    | 6                              | 7    | 8      | AB     | 9      | 10                    | AB    | AB    | 11    | 12    | Supriya     |  |
| 5                   | VANDNA      | 1                                        | 2    | ab   | 3      | AB   | 4                              | 5    | 6      | AB     | AB     | 7                     | 8     | 9     | AB    | 10    | Vandna      |  |
| 6                   | AMANDEEP    | AB                                       | 1    | 2    | 3      | 4    | AB                             | AB   | 5      | 6      | 7      | 8                     | 9     | AB    | 10    | 11    | Amandeep    |  |
| 7                   | ANIKET      | 1                                        | AB   | 3    | AB     | 4    | 5                              | 6    | AB     | 7      | 8      | AB                    | 9     | AB    | 10    | 11    | Aniket      |  |
| 8                   | ANSHDEEP    | 1                                        | 2    | 3    | 4      | 5    | 6                              | 7    | 8      | AB     | 9      | 10                    | AB    | AB    | 11    | 12    | Anshdeep    |  |
| 9                   | ARSHDEEP    | 1                                        | AB   | 3    | AB     | 4    | 5                              | 6    | AB     | 7      | 8      | AB                    | 9     | AB    | 10    | 11    | Arshdeep    |  |
| 10                  | BABLI SAINI | 1                                        | 2    | 3    | 4      | 5    | 6                              | 7    | 8      | AB     | 9      | 10                    | AB    | AB    | 11    | 12    | Babli Saini |  |
| 11                  | DIVYAJOT    | 1                                        | 2    | ab   | 3      | AB   | 4                              | 5    | 6      | AB     | AB     | 7                     | 8     | 9     | AB    | 10    | Divyajot    |  |
| 12                  | JAGDEEP     | AB                                       | 1    | 2    | 3      | 4    | AB                             | AB   | 5      | 6      | 7      | 8                     | 9     | 10    | 11    | AB    | Jagdeep     |  |
| 13                  | KIRAN       | 1                                        | 2    | ab   | 3      | AB   | 4                              | 5    | 6      | AB     | AB     | 7                     | 8     | 9     | AB    | 10    | Kiran       |  |
| 14                  | KULVEER     | AB                                       | 1    | 2    | 3      | 4    | AB                             | AB   | 5      | 6      | 7      | 8                     | 9     | 10    | 11    | AB    | Kulveer     |  |
| 15                  | KUSHAL      | 1                                        | AB   | 3    | AB     | 4    | 5                              | 6    | AB     | 7      | 8      | AB                    | 9     | AB    | 10    | 11    | Kushal      |  |



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# **ETHICAL HACKING**

## **SYLLABUS**

### **UNIT I INTRODUCTION TO CYBER CRIME AND FORENSICS 9**

Introduction to Traditional Computer Crime, Traditional problems associated with Computer Crime. Role of ECD and ICT in Cybercrime - Classification of Cyber Crime. The Present and future of Cybercrime - Cyber Forensics -Steps in Forensic Investigation - Forensic Examination Process - Types of CF techniques - Forensic duplication and investigation - Forensics Technology and Systems - Understanding Computer Investigation – Data Acquisition.

### **UNIT II EVIDENCE COLLECTION AND FORENSICS TOOLS 9**

Processing Crime and Incident Scenes – Digital Evidence - Sources of Evidence -Working with File Systems. - Registry - Artifacts - Current Computer Forensics Tools: Software/ Hardware Tools - Forensic Suite - Acquisition and Seizure of Evidence from Computers and Mobile Devices - Chain of Custody- Forensic Tools

### **UNIT III ANALYSIS AND VALIDATION 9**

Validating Forensics Data – Data Hiding Techniques – Performing Remote Acquisition – Network Forensics – Email Investigations – Cell Phone and Mobile Devices Forensics - Analysis of Digital Evidence - Admissibility of Evidence - Cyber Laws in India - Case Studies

### **UNIT IV ETHICAL HACKING 9**

Introduction to Ethical Hacking - Footprinting and Reconnaissance - Scanning Networks - Enumeration - System Hacking - Malware Threats – Sniffing – Email Tracking

**99**

### **UNIT V ETHICAL HACKING IN WEB 9**

Social Engineering - Denial of Service - Session Hijacking - Hacking Web servers - Hacking Web Applications – SQL Injection - Hacking Wireless Networks - Hacking Mobile Platforms.

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2021-22**

| S.NO | ROLL NO | NAME             | BRANCH     | YEAR | VALUE ADDED COURSE |
|------|---------|------------------|------------|------|--------------------|
| 1    | 2105142 | PRABHJOT KAUR    | M.Tech CSE | 1st  | ETHICAL HACKING    |
| 2    | 2105143 | RAJ KUMAR        | M.Tech CSE | 1st  | ETHICAL HACKING    |
| 3    | 2105144 | RIYA             | M.Tech CSE | 1st  | ETHICAL HACKING    |
| 4    | 2105145 | SUPRIYA SHARMA   | M.Tech CSE | 1st  | ETHICAL HACKING    |
| 5    | 2134685 | VANDNA KUMARI    | M.Tech CSE | 1st  | ETHICAL HACKING    |
| 6    | 2005288 | AMANDEEP SINGH   | B.TECH CSE | 2nd  | ETHICAL HACKING    |
| 7    | 2005289 | ANIKET KUMAR     | B.TECH CSE | 2nd  | ETHICAL HACKING    |
| 8    | 2005290 | ANSHDEEP BHATHAL | B.TECH CSE | 2nd  | ETHICAL HACKING    |
| 9    | 2005291 | ARSHDEEP SINGH   | B.TECH CSE | 2nd  | ETHICAL HACKING    |
| 10   | 1906404 | BABLI SAINI      | B.TECH CSE | 3rd  | ETHICAL HACKING    |
| 11   | 1906405 | DIVYAJOT KAUR    | B.TECH CSE | 3rd  | ETHICAL HACKING    |
| 12   | 1906407 | JAGDEEP KAUR     | B.TECH CSE | 3rd  | ETHICAL HACKING    |
| 13   | 1906410 | KIRAN            | B.TECH CSE | 3rd  | ETHICAL HACKING    |
| 14   | 1906411 | KULVEER SINGH    | B.TECH CSE | 3rd  | ETHICAL HACKING    |
| 15   | 1906412 | KUSHAL BHALWAL   | B.TECH CSE | 3rd  | ETHICAL HACKING    |

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## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**



## Academic Year 2023-24

### Activity organized Report

Date : 20.04.2022

|                               |                                                                                                                                                                                                                                                                                                                 |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                              |
| Title of Activity             | SALES PROMOTION                                                                                                                                                                                                                                                                                                 |
| Programme                     | MBA                                                                                                                                                                                                                                                                                                             |
| Date of Commencement          | 12.01.2022                                                                                                                                                                                                                                                                                                      |
| Date of Completion            | 20.04.2022                                                                                                                                                                                                                                                                                                      |
| Place of activity             | F BLOCK SEMINAR HALL                                                                                                                                                                                                                                                                                            |
| No of participants Enrolled   | 34                                                                                                                                                                                                                                                                                                              |
| No of participants completed  | 32                                                                                                                                                                                                                                                                                                              |
| Course Coordinator and Expert | RAVDEEP KAUR                                                                                                                                                                                                                                                                                                    |
| Summary of activity           | The value added course for the Even Semester During the Academic Year 2021-22 was Successfully Organized .The Course On “SALES PROMOTION ” was covered .It Was aimed at various course students to understand various promoyions .A total of 34 students registered for the course and 32 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                 |

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## *Sales Promotion Management*

value  
added  
course

Commencement

from:-

12/1/2022

Coordinator:-

Ravdeep Kaur Department of MBA



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IET/DEPT MBA /135

Date : 12/1/22

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Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2023-24. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class | Contact Hrs | Date of Commencement | Expert       |
|------|----------------------------|-------|-------------|----------------------|--------------|
| 1    | SALES PROMOTION            | MBA   | 30/45       | 12.01.2022           | RAVDEEP KAUR |
|      |                            |       |             |                      |              |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards  
Course co-ordinator

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email: [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)







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Campus: Bhaddal, PO Mianpur, Distt. Ropar, Punjab-140108 (India)  
UGC approved (2f & 12B) | Affiliated to IKG-PTU (Jalandhar)

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DATE 19/122

## NOTICE

It is for the information of all students of - That <sup>MBA</sup> ~~Introduction to Cooperate Finance~~ department is conducting value added course entitled - <sup>Sales Promotion</sup> ~~Introduction to Cooperate Finance~~ from -19/1/2024. The Course is scheduled for -45 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 675% attendance

  
Course co-ordinator:

SHUBLAKS  
HAN SINGH  
BINDRA

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Head of Department

Cc : principal ( For Kind information please)  
Head Of all Departments ( For Information)  
IQAC  
ALL the notice boards

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Dept of MBA

2021-22

| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                      |                                |       |       |      |      |       |       |      |      |       |       |                       |      |       |          |                |
|------------------------------------------|----------------------|--------------------------------|-------|-------|------|------|-------|-------|------|------|-------|-------|-----------------------|------|-------|----------|----------------|
| DURATION 3HR                             |                      | Name Of Course SALES PROMOTION |       |       |      |      |       |       |      |      |       |       | Course Duration 45hrs |      |       |          |                |
| S.no                                     | Name                 | 12//1                          | 19//1 | 26//1 | 2//2 | 9//2 | 16//2 | 23//2 | 2//3 | 9//3 | 16//3 | 23//3 | 30//3                 | 6//4 | 13//4 | 20//4/22 | SIGNATURE      |
| 1                                        | BHAVNA DEVI          | 1                              | 2     | ab    | 3    | AB   | 4     | 5     | 6    | AB   | AB    | 7     | 8                     | 9    | AB    | 10       | Bhavna Devi    |
| 2                                        | DIKSHA DHIMAN        | AB                             | 1     | 2     | 3    | 4    | AB    | AB    | 5    | 6    | 7     | 8     | 9                     | 10   | 11    | AB       | Diksha         |
| 3                                        | GAGANDEEP Kaur       | 1                              | AB    | 3     | AB   | 4    | 5     | 6     | AB   | 7    | 8     | AB    | 9                     | AB   | 10    | 11       | Gagan          |
| 4                                        | GURWINDER SINGH      | 1                              | 2     | 3     | 4    | 5    | 6     | 7     | 8    | AB   | 9     | 10    | AB                    | AB   | 11    | 12       | Gurwinder S    |
| 5                                        | HARDEEP SINGH        | 1                              | 2     | ab    | 3    | AB   | 4     | 5     | 6    | AB   | AB    | 7     | 8                     | 9    | AB    | 10       | Hardeep        |
| 6                                        | HARMANJEET Kaur      | AB                             | 1     | 2     | 3    | 4    | AB    | AB    | 5    | 6    | 7     | 8     | 9                     | 10   | 11    | AB       | Harmanjeet     |
| 7                                        | HARMINDER Kaur       | 1                              | AB    | 3     | AB   | 4    | 5     | 6     | AB   | 7    | 8     | AB    | 9                     | AB   | 10    | 11       | Harminde Kaur  |
| 8                                        | HARPREET SINGH       | 1                              | 2     | 3     | 4    | 5    | 6     | 7     | 8    | AB   | 9     | 10    | AB                    | AB   | 11    | 12       | Harpreet       |
| 9                                        | HUZAIF SIKANDER      | 1                              | AB    | 3     | AB   | 4    | 5     | 6     | AB   | 7    | 8     | AB    | 9                     | AB   | 10    | 11       | Huzaf          |
| 10                                       | ISHFAQ AHMAD BHAT    | 1                              | 2     | 3     | 4    | 5    | 6     | 7     | 8    | AB   | 9     | 10    | AB                    | AB   | 11    | 12       | Ishfaq         |
| 11                                       | JAFFAR MAQBOOL       | 1                              | 2     | ab    | 3    | AB   | 4     | 5     | 6    | AB   | AB    | 7     | 8                     | 9    | AB    | 10       | Jaffar         |
| 12                                       | JAMSHEED HUSSAIN DAR | AB                             | 1     | 2     | 3    | 4    | AB    | AB    | 5    | 6    | 7     | 8     | 9                     | 10   | 11    | AB       | Jamshed        |
| 13                                       | JASHANPREET Kaur     | 1                              | 2     | ab    | 3    | AB   | 4     | 5     | 6    | AB   | AB    | 7     | 8                     | 9    | AB    | 10       | Jashanpreet    |
| 14                                       | KAMALJEET Kaur       | AB                             | 1     | 2     | 3    | 4    | AB    | AB    | 5    | 6    | 7     | 8     | 9                     | 10   | 11    | AB       | Kamaljeet Kaur |
| 15                                       | KAMALPREET Kaur      | 1                              | AB    | 3     | AB   | 4    | 5     | 6     | AB   | 7    | 8     | AB    | 9                     | AB   | 10    | 11       | Kamalpreet     |

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# **SALES PROMOTION**

## **SYLLABUS**

### **FUNCTIONS OF SALES MANAGERS (Brief)**

- Planning Functions :
  - a) Setting the sales objective
  - b) Designing the sales programme
  - c) Formulating Policies
  - d) Designing and development of the Sales Organization
  - e) Participating in the marketing planning function.
- Operating Functions :
  - i. Management of sales forces
    - a) Recruitment
    - b) Selection
    - c) Training
    - d) Development
    - e) Control
    - f) Motivation
    - g) Direction
    - h) Control
  - i) Territory Management
  - ii. Establishing working relationship with other Departmental Heads.
  - iii. Establishing Communication System both upward and downward.

### **Unit III:**

#### **RECRUITMENT AND SELECTION:**

- Recruitment

What is recruitment?

Recruitment Sources - advertisement, employment agencies, educational institutions, salesman of Non- competitor companies, salesman of competing companies, inter transfer, recommendation of present salesman.
- Selection

Importance and Need for selection

Selection policy decision

Selection tools

Difficulties to be encountered in selection the right personnel

Interview type.

### **Unit IV:**

- Training And Direction
  - i. Need of training
  - ii. Objectives of training
  - iii. Advantages of good training programme
  - iv. Deciding training content
  - v. Selecting training methods
  - vi. Organization for sales training
  - vii. Evaluation of training programme
  - viii. Informal training
- Direction
  - i) The essence of sales leadership
  - ii) Sales managers' leadership roles
  - iii) Individual leadership skills

#### **Unit V:**

### **MOTIVATION AND COMPENSATION**

- Meaning of motivation, Motivation Theories (in brief), Need for motivating the sales force. Motivational techniques e.g.
  - a) Meeting between managers and sales force
  - b) Clarity of job
  - c) Sales targets or quotas
  - d) Sales contest
  - e) Sales- convention and conferences
  - f) Positive affect –praise, feedback, warmth and understanding of personal problems, etc.
  - g) Leadership style of manager
  - h) Freedom to work
  - i) Reward and recognition
  - j) Persuasion
  - k) Financial Incentives, Fringe benefits.

#### **Unit VI:**

### **APPRAISAL OF PERFORMANCE**

- Need for appraisal of performance
- Some basic issues involved in appraisal of performance. Viz : Evaluation based on qualitative, vis -a – vis quantitative data, comparison of the results of evaluation, problems of determining standard of performances, periodicity of evaluation, Company Data Base as a basis of developing the system of evaluation etc.
- Performance Standards Viz : Sales quotas, Sales coverage effectiveness index, Sales expense ratio, Net profit ratio or gross margin rates per territory, call frequency ratio, Calls per day, average cost per call.

## Suggested Readings

- Sales Promotion: How to Create and Implement Campaigns that Really Work Book by Julian Cummins
- How to Sell More Stuff!: Promotional Marketing That Really Works by Steve Smith
- Building a Winning Sales Management Team: The Force Behind the Sales Force – Andris A. Zoltners, PrabhakantSinha, Sally E. Lorimer
- Sales Force Design for Strategic Advantage – Andris A. Zoltners, PrabhakantSinha, Sally E. Lorimer
- Sales Management: Concepts, Practices and Cases- Johnson, Kurtz, Scheuing, McGraw Hill Inc.
- Sales Management : Still, Cundiff, Govoni

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2021-22**

| S.NO | ROLL NO | NAME                 | BRANCH | YEAR | VALUE ADDED COURSE |
|------|---------|----------------------|--------|------|--------------------|
| 1    | 2105044 | BHAVNA DEVI          | MBA    | 2ND  | SALES PROMOTION    |
| 2    | 2105045 | DIKSHA DHIMAN        | MBA    | 2ND  | SALES PROMOTION    |
| 3    | 2105046 | GAGANDEEP KAUR       | MBA    | 2ND  | SALES PROMOTION    |
| 4    | 2105047 | GURWINDER SINGH      | MBA    | 2ND  | SALES PROMOTION    |
| 5    | 2105048 | HARDEEP SINGH        | MBA    | 2ND  | SALES PROMOTION    |
| 6    | 2105049 | HARMANJEET KAUR      | MBA    | 2ND  | SALES PROMOTION    |
| 7    | 2105050 | HARMINDER KAUR       | MBA    | 2ND  | SALES PROMOTION    |
| 8    | 2105051 | HARPREET SINGH       | MBA    | 2ND  | SALES PROMOTION    |
| 9    | 2105052 | HUZAIF SIKANDER      | MBA    | 2ND  | SALES PROMOTION    |
| 10   | 2105053 | ISHFAQ AHMAD BHAT    | MBA    | 2ND  | SALES PROMOTION    |
| 11   | 2105054 | JAFFAR MAQBOOL       | MBA    | 2ND  | SALES PROMOTION    |
| 12   | 2105055 | JAMSHEED HUSSAIN DAR | MBA    | 2ND  | SALES PROMOTION    |
| 13   | 2105056 | JASHANPREET KAUR     | MBA    | 2ND  | SALES PROMOTION    |
| 14   | 2105057 | KAMALJEET KAUR       | MBA    | 2ND  | SALES PROMOTION    |
| 15   | 2105058 | KAMALPREET KAUR      | MBA    | 2ND  | SALES PROMOTION    |

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Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

## Academic Year 2023-24

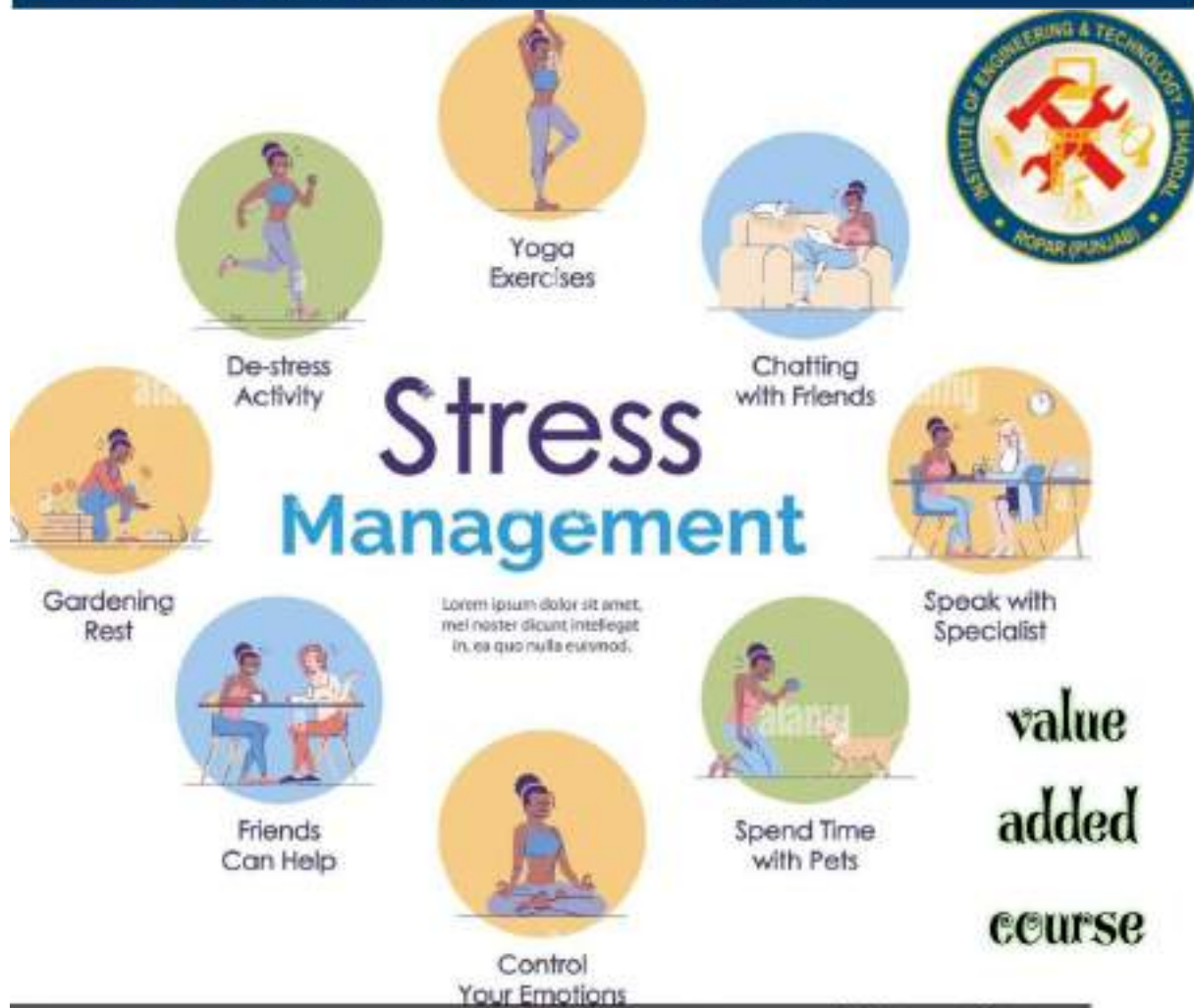
### Activity organized Report

Date : 9.05.2022

|                               |                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                         |
| Title of Activity             | STRESS MANAGEMENT                                                                                                                                                                                                                                                                                                          |
| Programme                     | MBA                                                                                                                                                                                                                                                                                                                        |
| Date of Commencement          | 13.01.2022                                                                                                                                                                                                                                                                                                                 |
| Date of Completion            | 09.05.2022                                                                                                                                                                                                                                                                                                                 |
| Place of activity             | F BLOCK SEMINAR HALL                                                                                                                                                                                                                                                                                                       |
| No of participants Enrolled   | 34                                                                                                                                                                                                                                                                                                                         |
| No of participants completed  | 32                                                                                                                                                                                                                                                                                                                         |
| Course Coordinator and Expert | Neha Sharma                                                                                                                                                                                                                                                                                                                |
| Summary of activity           | The value added course for the Even Semester During the Academic Year 2021-22 was Successfully Organized .The Course On “STRESS MANAGEMENT” was covered .It Was aimed at various course students to understand stress and how to control it .A total of 34 students registered for the course and 32 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                            |

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Commencement from: - 13/1/2022

Coordinator: - Neha Sharma

Department of MBA

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IET/DEPT-MBA/163

Date : 13/1/2022

PRINCIPAL  
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Permission For Conducting value added course and allocate faculty member for same

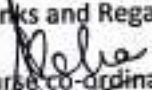
It is to bring to your kind notice that following value added course is finalized For academic Year 2023-24. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class | Contact Hrs | Date of Commencement | Expert      |
|------|----------------------------|-------|-------------|----------------------|-------------|
| 1    | STRESS MANAGEMENT          | MBA   | 30/45       | 13.01.2022           | Neha sharma |
|      |                            |       |             |                      |             |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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IET/VAC/MBA/197

DATE 19/1/2022

## NOTICE

It is for the information of all students of - That **MBA** department is conducting value added course entitled – **Introduction to Cooperate Finance** from ~~31/1/2022~~ **31/1/2022**. The Course is scheduled for -45 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

  
Head of Department

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| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                    |                                  |     |      |      |      |     |      |      |      |     |      | Date 21-01-22         |      |     |     |                   | 2021-22   |
|------------------------------------------|--------------------|----------------------------------|-----|------|------|------|-----|------|------|------|-----|------|-----------------------|------|-----|-----|-------------------|-----------|
| DURATION 3HR                             |                    | Name Of Course STRESS MANAGEMENT |     |      |      |      |     |      |      |      |     |      | Course Duration 45hrs |      |     |     |                   | SIGNATURE |
| S.no                                     | Name               | 31/1                             | 7/2 | 14/2 | 21/2 | 28/2 | 7/3 | 14/3 | 21/3 | 28/3 | 4/4 | 11/4 | 18/4                  | 25/4 | 2/5 | 9/5 | SIGNATURE         |           |
| 1                                        | AMIT VERMA         | 1                                | 2   | ab   | 3    | AB   | 4   | 5    | 6    | AB   | AB  | 7    | 8                     | 9    | AB  | 10  | Amit Verma        |           |
| 2                                        | BASHAR HOSSEN      | AB                               | 1   | 2    | 3    | 4    | AB  | AB   | 5    | 6    | 7   | 8    | 9                     | 10   | 11  | AB  | Bashar Hossen     |           |
| 3                                        | FAYSAL MONDAL      | 1                                | AB  | 3    | AB   | 4    | 5   | 6    | AB   | 7    | 8   | AB   | 9                     | AB   | 10  | 11  | Faysal Mondal     |           |
| 4                                        | KANIKA             | 1                                | 2   | 3    | 4    | 5    | 6   | 7    | 8    | AB   | 9   | 10   | AB                    | AB   | 11  | 12  | Kanika            |           |
| 5                                        | KRITIKA BANSAL     | 1                                | 2   | ab   | 3    | AB   | 4   | 5    | 6    | AB   | AB  | 7    | 8                     | 9    | AB  | 10  | Kritika Bansal    |           |
| 6                                        | LALIT KUMAR        | AB                               | 1   | 2    | 3    | 4    | AB  | AB   | 5    | 6    | 7   | 8    | 9                     | 10   | 11  | AB  | Lalit Kumar       |           |
| 7                                        | LOVPREET KAUR      | 1                                | AB  | 3    | AB   | 4    | 5   | 6    | AB   | 7    | 8   | AB   | 9                     | AB   | 10  | 11  | Lovpreet Kaur     |           |
| 8                                        | NISHITA THAKUR     | 1                                | 2   | 3    | 4    | 5    | 6   | 7    | 8    | AB   | 9   | 10   | AB                    | AB   | 11  | 12  | Nishita Thakur    |           |
| 9                                        | SAMARJIT JHADAI    | 1                                | AB  | 3    | AB   | 4    | 5   | 6    | AB   | 7    | 8   | AB   | 9                     | AB   | 10  | 11  | Samarjit Jhadai   |           |
| 10                                       | TANYA MEHRA        | 1                                | 2   | 3    | 4    | 5    | 6   | 7    | 8    | AB   | 9   | 10   | AB                    | AB   | 11  | 12  | Tanya Mehra       |           |
| 11                                       | AVNEET KAUR        | 1                                | 2   | ab   | 3    | AB   | 4   | 5    | 6    | AB   | AB  | 7    | 8                     | 9    | AB  | 10  | Avneet Kaur       |           |
| 12                                       | CHARANJEET         | AB                               | 1   | 2    | 3    | 4    | AB  | AB   | 5    | 6    | 7   | 8    | 9                     | 10   | 11  | AB  | Charanjeet        |           |
| 13                                       | DAMANPREET SINGH   | 1                                | 2   | ab   | 3    | AB   | 4   | 5    | 6    | AB   | AB  | 7    | 8                     | 9    | AB  | 10  | Damanpreet Singh  |           |
| 14                                       | RUPESH KUMAR YADAV | AB                               | 1   | 2    | 3    | 4    | AB  | AB   | 5    | 6    | 7   | 8    | 9                     | 10   | 11  | AB  | Rupesh Kumar      |           |
| 15                                       | VARUN SAINI        | 1                                | AB  | 3    | AB   | 4    | 5   | 6    | AB   | 7    | 8   | AB   | 9                     | AB   | 10  | 11  | Varun Saini       |           |
| 16                                       | JEETU KUMAR        | 1                                | 2   | 3    | 4    | 5    | 6   | 7    | 8    | AB   | 9   | 10   | AB                    | AB   | 11  | 12  | Jeetu Kumar       |           |
| 17                                       | NANCY MAHE         | 1                                | 2   | ab   | 3    | AB   | 4   | 5    | 6    | AB   | AB  | 7    | 8                     | 9    | AB  | 10  | Nancy Mahe        |           |
| 18                                       | SUKHCHAIN SINGH    | AB                               | 1   | 2    | 3    | 4    | AB  | AB   | 5    | 6    | 7   | 8    | 9                     | 10   | 11  | AB  | Sukhchain Singh   |           |
| 19                                       | SUKHPREET SINGH    | 1                                | AB  | 3    | AB   | 4    | 5   | 6    | AB   | 7    | 8   | AB   | 9                     | AB   | 10  | 11  | Sukhpreet Singh   |           |
| 20                                       | TOUKIR HOSSAIN     | 1                                | 2   | 3    | 4    | 5    | 6   | 7    | 8    | AB   | 9   | 10   | AB                    | AB   | 11  | 12  | Toukir Hossain    |           |
| 21                                       | AAMIR SAJAD GANOO  | 1                                | 2   | ab   | 3    | AB   | 4   | 5    | 6    | AB   | AB  | 7    | 8                     | 9    | AB  | 10  | Aamir Sajad Ganoo |           |
| 22                                       | AMAN ABROL         | AB                               | 1   | 2    | 3    | 4    | AB  | AB   | 5    | 6    | 7   | 8    | 9                     | 10   | 11  | AB  | Aman Abrol        |           |
| 23                                       | ANKUSH KUMAR       | 1                                | AB  | 3    | AB   | 4    | 5   | 6    | AB   | 7    | 8   | AB   | 9                     | AB   | 10  | 11  | Ankush Kumar      |           |
| 24                                       | ASIF NABI SHEIKH   | 1                                | 2   | 3    | 4    | 5    | 6   | 7    | 8    | AB   | 9   | 10   | AB                    | AB   | 11  | 12  | Asif Nabi Sheikh  |           |
| 25                                       | EMANJAP KAUR       | 1                                | 2   | ab   | 3    | AB   | 4   | 5    | 6    | AB   | AB  | 7    | 8                     | 9    | AB  | 10  | Emanjap Kaur      |           |
| 26                                       | RAMANPREET KAUR    | AB                               | 1   | 2    | 3    | 4    | AB  | AB   | 5    | 6    | 7   | 8    | 9                     | 10   | 11  | AB  | Ramanpreet Kaur   |           |
| 27                                       | KARAM GURPARTAP    | 1                                | AB  | 3    | AB   | 4    | 5   | 6    | AB   | 7    | 8   | AB   | 9                     | AB   | 10  | 11  | Karam Gurpartap   |           |
| 28                                       | RAJAT              | 1                                | 2   | 3    | 4    | 5    | 6   | 7    | 8    | AB   | 9   | 10   | AB                    | AB   | 11  | 12  | Rajat             |           |
| 29                                       | SAHIL              | 1                                | AB  | 3    | AB   | 4    | 5   | 6    | AB   | 7    | 8   | AB   | 9                     | AB   | 10  | 11  | Sahil             |           |
| 30                                       | SHREYA JAIN        | 1                                | 2   | 3    | 4    | 5    | 6   | 7    | 8    | AB   | 9   | 10   | AB                    | AB   | 11  | 12  | Shreya Jain       |           |
| 31                                       | SIMRANJIT KAUR     | 1                                | 2   | ab   | 3    | AB   | 4   | 5    | 6    | AB   | AB  | 7    | 8                     | 9    | AB  | 10  | Simranjit Kaur    |           |
| 32                                       | Sourav K           | AB                               | 1   | 2    | 3    | 4    | AB  | AB   | 5    | 6    | 7   | 8    | 9                     | 10   | 11  | AB  | Sourav K          |           |

# STRESS MANAGEMENT

## SYLLABUS

### Objectives:

1. To understand the nature and consequences of stress
2. To understand the impact of stress on work
3. To recognise the stressors, Adaptive and Maladaptive behaviour

### Course outcome

1. Understand the cognitive variables of stress
2. Learn Managing Work-Life Balance
3. Preparing for better future by reducing the stress.

**Pedagogy:** Lectures, assignments, Group discussions, seminars and training

Module 1, Meaning and nature of stress: Difference between eustress and distress; Frustration, conflict and pressure; Meaning of stressors; common stressors at work place: Stressors unique to age and gender.

Module 2, Cognitive appraisal of stress: General adaptation to stress; Consequences of stress; Physiological and psychological changes associated with the stress response. Stress and Memory; Stress and Other Cognitive Variables; Stressful environmental conditions on performance.

Module 3, Behavioural aspects of Stress: Adaptive and Maladaptive Behaviour; Individual and Cultural Differences: Sources of Stress- Across the Lifespan; College and Occupational Stress.

Module 4, Stress and Work performance: Role of communication in managing stress and work performance: Emotional regulation and coping; Emotional intelligence and conflict management: Emotional Basis and Stress; Stress and Conflict in Relationships.

Module 5, Stress Intervention: Performance and Stress Intervention- The relationship between stress and performance; Stress intervention – interpersonal, Management Standards and Management Competencies.

Module 6, Strategies of Stress Management: Prevention of stress Challenging Stressful Thinking; Problem Solving; Emotional and cognitive coping styles: Strategies of Synthesis and Prevention: Resilience and Stress; Optimal functioning; Making changes last; Small changes and large rewards.

Module 7, Preparing for the Future: Care of the Self: Nutrition and Other Lifestyle Issues: Stress reduction practices: Time management; Exercise; Relaxation techniques; yoga; meditation.

### Reference Books:

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1. Baron .L &Feist.J (2000) Health Psychology 4th edition, USA Brooks/Cole
2. Barlow, Rapee, and Perini(2014), 10 Steps to Mastering Stress: A Lifestyle Approach, USA
3. Clayton,M, (2011).Brilliant stressmanagement How to manage stress in any situation's 1st edition, Greart Britain Pearson Education
4. Cooper,C,&Palmer,S, (2000)Conquer Your Stress, London: Institute of personal development Universities Press
5. Dutta, P,K, (2010) Stress management Himalaya, Himalaya Publishing House
6. Lee, K. (2014). Reset: Make the Most of Your Stress: Your 24-7 Plan for Well-being. Universe Publishing.
7. Ogden.J (2000) Health Psychology 2nd edition Philadelphia, Open university press
8. Olpin, M. &Hesson, M. (2015). Stress Management for Life: A Research-Based Experiential Approach.4th edition.Wadsworth Publishing.
9. Rice.P.L.(1992) Stress and Health,2nd edition, California, Brooks/Cole
10. Roy,S (2012) Managing stress, Sterling Publication
11. Taylor S.E (1998) Health Psychology 3rd edition, New York. McGrawHi

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2021-22**

| S.NO | ROLL NO | NAME               | BRANCH       | YEAR | VALUE ADDED COURSE |
|------|---------|--------------------|--------------|------|--------------------|
| 173  | 2105024 | AMIT VERMA         | B.TECH CSE   | 1ST  | STRESS MANAGEMENT  |
| 1    | 2105025 | BASHAR HOSSEN      | B.TECH CSE   | 1ST  | STRESS MANAGEMENT  |
| 2    | 2105031 | FAYSAL MONDAL      | B.TECH CSE   | 1ST  | STRESS MANAGEMENT  |
| 3    | 2105027 | KANIKA             | B.TECH CSE   | 1ST  | STRESS MANAGEMENT  |
| 4    | 2105028 | KRIKA BANSAL       | B.TECH CSE   | 1ST  | STRESS MANAGEMENT  |
| 5    | 2105029 | LALIT KUMAR        | B.TECH CSE   | 1ST  | STRESS MANAGEMENT  |
| 6    | 2105030 | LOVPREET KAUR      | B.TECH CSE   | 1ST  | STRESS MANAGEMENT  |
| 7    | 2105032 | NISHITA THAKUR     | B.TECH CSE   | 1ST  | STRESS MANAGEMENT  |
| 8    | 2105033 | SAMARJIT JHADA     | B.TECH CSE   | 1ST  | STRESS MANAGEMENT  |
| 9    | 2105034 | TANYA MEHRA        | B.TECH CSE   | 1ST  | STRESS MANAGEMENT  |
| 10   | 2105035 | AVNEET KAUR        | B.tech EE    | 1ST  | STRESS MANAGEMENT  |
| 11   | 2105036 | CHARANJEET         | B.tech EE    | 1ST  | STRESS MANAGEMENT  |
| 12   | 2105037 | DAMANPREET SINGH   | B.tech EE    | 1ST  | STRESS MANAGEMENT  |
| 13   | 2105038 | RUPESH KUMAR YADAV | B.tech EE    | 1ST  | STRESS MANAGEMENT  |
| 14   | 2105039 | VARUN SAINI        | B.tech EE    | 1ST  | STRESS MANAGEMENT  |
| 15   | 2105020 | JEETU KUMAR        | B.tech civil | 1ST  | STRESS MANAGEMENT  |
| 16   | 2105021 | NANCY MAHE         | B.tech civil | 1ST  | STRESS MANAGEMENT  |
| 17   | 2105022 | SUKHCHAIN SINGH    | B.tech civil | 1ST  | STRESS MANAGEMENT  |
| 18   | 2105023 | SUKHPREET SINGH    | B.tech civil | 1ST  | STRESS MANAGEMENT  |
| 19   | 2105107 | TOUKIR HOSSAIN     | B.tech ME    | 1ST  | STRESS MANAGEMENT  |

|    |         |                       |        |     |                   |
|----|---------|-----------------------|--------|-----|-------------------|
| 20 | 2105040 | AAMIR SAJAD GANOO     | MBA    | 1ST | STRESS MANAGEMENT |
| 21 | 2105042 | AMAN ABROL            | MBA    | 1ST | STRESS MANAGEMENT |
| 22 | 2105043 | ANKUSH KUMAR          | MBA    | 1ST | STRESS MANAGEMENT |
| 23 | 2105041 | ASIF NABI SHEIKH      | MBA    | 1ST | STRESS MANAGEMENT |
| 24 | 2005281 | EMANJAP KAUR          | B.ARCH | 2ND | STRESS MANAGEMENT |
| 25 | 2005282 | RAMANPREET KAUR       | B.ARCH | 2ND | STRESS MANAGEMENT |
| 26 | 1806918 | KARAM GURPARTAP SINGH | B.ARCH | 4TH | STRESS MANAGEMENT |
| 27 | 1806919 | RAJAT                 | B.ARCH | 4TH | STRESS MANAGEMENT |
| 28 | 1806920 | SAHIL                 | B.ARCH | 4TH | STRESS MANAGEMENT |
| 29 | 1806922 | SHREYA JAIN           | B.ARCH | 4TH | STRESS MANAGEMENT |
| 30 | 1806923 | SIMRANJIT KAUR        | B.ARCH | 4TH | STRESS MANAGEMENT |
| 31 | 1806924 | Sourav K              | B.ARCH | 4TH | STRESS MANAGEMENT |

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BINDRA**

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Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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KSHAN  
SINGH  
BINDRA

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**Principal**

**Date of issue**



## Academic Year 2021-22

### Activity organized Report

Date : 21.04.2022

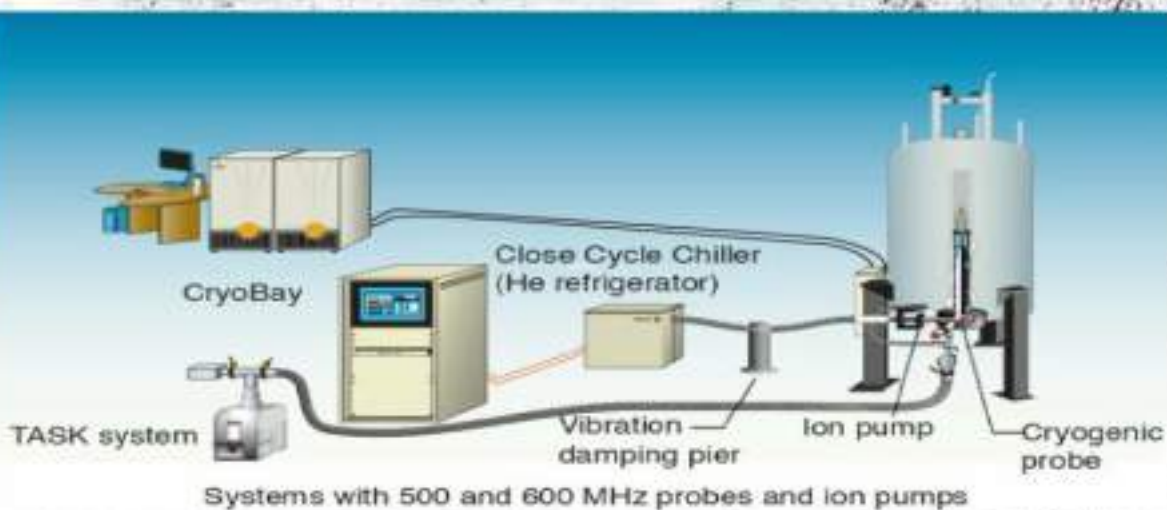
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|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                          |
| Title of Activity             | STRUCTURAL EVAL                                                                                                                                                                                                                                                                                             |
| Programme                     | B.TECH/BARCH                                                                                                                                                                                                                                                                                                |
| Date of Commencement          | 13.01.2022                                                                                                                                                                                                                                                                                                  |
| Date of Completion            | 21.04.2022                                                                                                                                                                                                                                                                                                  |
| Place of activity             | F BLOCK SEMINAR HALL                                                                                                                                                                                                                                                                                        |
| No of participants Enrolled   | 34                                                                                                                                                                                                                                                                                                          |
| No of participants completed  | 32                                                                                                                                                                                                                                                                                                          |
| Course Coordinator and Expert | HARDEEP SINGH                                                                                                                                                                                                                                                                                               |
| Summary of activity           | The value added course for the Even Semester During the Academic Year 2021-22 was Successfully Organized .The Course On “STRUCTURAL EVAL ” was covered .It Was aimed at various course students to understand structural eval.A total of 34 students registered for the course and 32 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                             |

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# STRUCTURAL Elucidation



## Value Added Course



**COMMENCEMENT FROM:-**

**18/7/2022**

**Coordinator:- Hardeep  
Singh**

**Organised by :-  
Department of Civil  
Engineering  
Bhaddal**





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IET/DEPT-CE-111

Date: 13/1/22

PRINCIPAL  
IET BHADDAL  
ROPAR

Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2023-24. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class        | Contact Hrs | Date of Commencement | Expert        |
|------|----------------------------|--------------|-------------|----------------------|---------------|
| 1    | STRUCTURAL EVALAUTAION     | B.TECH/BARCH | 30/45       | 13.01.2022           | HARDEEP SINGH |
|      |                            |              |             |                      |               |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

Hardeep  
Course co-ordinator

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : info@ietbhaddal.edu.in | Website: www.ietbhaddal.edu.in



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IET NAC/III/021

DATE 13/1/22

## NOTICE

It is for the information of all students of - That Civil Engg department is conducting value added course entitled - **STRUCTURAL EVAL** from -13/1/2022. The Course is scheduled for -45 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

Shublakshan Singh Bindra  
Course co-ordinator:

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Head of Department  
Head of Department:

Cc : principal ( For Kind information please)  
Head Of all Departments ( For Information)  
IQAC  
ALL the notice boards

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : info@ietbhaddal.edu.in | Website: www.ietbhaddal.edu.in



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Dept of Chem 2021-22

| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                      |                                       |      |      |     |      |      |      |     |      |      |      |      |     |      |      |                      |
|------------------------------------------|----------------------|---------------------------------------|------|------|-----|------|------|------|-----|------|------|------|------|-----|------|------|----------------------|
| DURATION 3HR                             |                      | Name Of Course STRUCTURAL EVALAUTAION |      |      |     |      |      |      |     |      |      |      |      |     |      |      |                      |
| S.no                                     | Name                 | 13/1                                  | 20/1 | 27/1 | 3/2 | 10/2 | 17/2 | 24/2 | 3/3 | 10/3 | 17/3 | 24/3 | 31/3 | 7/4 | 14/4 | 21/4 | SIGNATURE            |
| 1                                        | PARMINDER SINGH      | 1                                     | 2    | ab   | 3   | AB   | 4    | 5    | 6   | AB   | AB   | 7    | 8    | 9   | AB   | 10   | Parminder Singh      |
| 2                                        | AMIT KUMAR YADAV     | AB                                    | 1    | 2    | 3   | 4    | AB   | AB   | 5   | 6    | 7    | 8    | 9    | 10  | 11   | AB   | Amit Kumar           |
| 3                                        | ASHISH SHARMA        | 1                                     | AB   | 3    | AB  | 4    | 5    | 6    | AB  | 7    | 8    | AB   | 9    | AB  | 10   | 11   | Ashish Sharma        |
| 4                                        | PRINCE               | 1                                     | 2    | 3    | 4   | 5    | 6    | 7    | 8   | AB   | 9    | 10   | AB   | AB  | 11   | 12   | Prince               |
| 5                                        | NISHANT RAHMAN       | 1                                     | 2    | ab   | 3   | AB   | 4    | 5    | 6   | AB   | AB   | 7    | 8    | 9   | AB   | 10   | Nishant Rahman       |
| 6                                        | MOHAMMAD ILAYAS      | AB                                    | 1    | 2    | 3   | 4    | AB   | AB   | 5   | 6    | 7    | 8    | 9    | 10  | 11   | AB   | Mohammad Ilayas      |
| 7                                        | SABEENA NAZIR        | 1                                     | AB   | 3    | AB  | 4    | 5    | 6    | AB  | 7    | 8    | AB   | 9    | AB  | 10   | 11   | Sabeena Nazir        |
| 8                                        | MOHD IQBAL           | 1                                     | 2    | 3    | 4   | 5    | 6    | 7    | 8   | AB   | 9    | 10   | AB   | AB  | 11   | 12   | Mohd Iqbal           |
| 9                                        | AKSHAY GOYAL         | 1                                     | AB   | 3    | AB  | 4    | 5    | 6    | AB  | 7    | 8    | AB   | 9    | AB  | 10   | 11   | Akshay Goyal         |
| 10                                       | ASHWINI THAKREY      | 1                                     | 2    | 3    | 4   | 5    | 6    | 7    | 8   | AB   | 9    | 10   | AB   | AB  | 11   | 12   | Ashwini Thakrey      |
| 11                                       | DIKSHA SHARMA        | 1                                     | 2    | ab   | 3   | AB   | 4    | 5    | 6   | AB   | AB   | 7    | 8    | 9   | AB   | 10   | Diksha Sharma        |
| 12                                       | INDERPREET KAUR      | AB                                    | 1    | 2    | 3   | 4    | AB   | AB   | 5   | 6    | 7    | 8    | 9    | 10  | 11   | AB   | Inderpreet Kaur      |
| 13                                       | JETHRO BANDA         | 1                                     | 2    | ab   | 3   | AB   | 4    | 5    | 6   | AB   | AB   | 7    | 8    | 9   | AB   | 10   | Jethro Banda         |
| 14                                       | SIMRANJOT SINGH      | AB                                    | 1    | 2    | 3   | 4    | AB   | AB   | 5   | 6    | 7    | 8    | 9    | 10  | 11   | AB   | Simranjot Singh      |
| 15                                       | JATIN KUMAR BHATIA   | 1                                     | AB   | 3    | AB  | 4    | 5    | 6    | AB  | 7    | 8    | AB   | 9    | AB  | 10   | 11   | Jatin Kumar Bhatia   |
| 16                                       | ABRAR NAZIR SHAH     | 1                                     | 2    | 3    | 4   | 5    | 6    | 7    | 8   | AB   | 9    | 10   | AB   | AB  | 11   | 12   | AbRAR Nazir Shah     |
| 17                                       | ADNAN HUSSAIN SHEIKH | 1                                     | 2    | ab   | 3   | AB   | 4    | 5    | 6   | AB   | AB   | 7    | 8    | 9   | AB   | 10   | Adnan Hussain Sheikh |
| 18                                       | AMIT KUMAR           | AB                                    | 1    | 2    | 3   | 4    | AB   | AB   | 5   | 6    | 7    | 8    | 9    | 10  | 11   | AB   | Amit Kumar           |
| 19                                       | HAAFIZ ZAMAL         | 1                                     | AB   | 3    | AB  | 4    | 5    | 6    | AB  | 7    | 8    | AB   | 9    | AB  | 10   | 11   | Haafiz Zamal         |
| 20                                       | HAZOOD ALI           | 1                                     | 2    | 3    | 4   | 5    | 6    | 7    | 8   | AB   | 9    | 10   | AB   | AB  | 11   | 12   | Hazood Ali           |

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# STRUCTURE EVALUATION

## SYLLABUS

### Course Objective

The students will be able to understand and analyse various structures using the concepts of shear force, bending moment, indeterminacy, influence lines, arches, cables, portal and cantilever

### UNIT 1

Introduction & Analysis of Plane Structures: Introduction and Classification of Structures, Review of AFD, SFD and BMD for Beam and frames, Degree of Freedoms, Static and Kinematic Indeterminacy of Structures, Analysis of Compound and Complex Trusses, Analysis of Plane Frames.

### UNIT 2

Displacements of Plane Structures: Introduction, Energy methods, Maxwell's Reciprocal & Betti's Theorem, Unit Load method, Deflection of trusses and plane frames.

### UNIT 3

Rolling Loads and Influence Line Diagrams: Introduction, Influence Line Diagrams for Beams & Trusses, Absolute Maximum Bending Moments, Muller- Breslau principle and its applications.

### UNIT 4

Arches and Cables: Introduction, Linear Arch, Eddy's Theorem, Three-Hinged & Two-Hinged Arches, Influence Lines for Arches, Analysis of Cables.

### UNIT 5

Approximate methods of analysis: Portal method - Cantilever method – Substitute frame method.

### Textbooks

1. Theory of Structures (Vol. 1), G. Pandit, S. Gupta, Rajesh Gupta, Tata McGraw Hill Pub., 2017.
2. Theory and Problems in Structural Analysis, L.S. Negi, Tata McGraw Hill Pub., 1997.
3. Mechanics of Structures Vol 1 & Vol.2, Junarkar. S. B and Shah H.J, Charotar Publishers, 2008, 32nd Edition.

### Reference Books

1. Intermediate Structural Analysis, Chu-Kia Wang, Tata McGraw Hill Publishers, 2017.
2. Structural Analysis, R C Hibbeler, Pearson, 2017.
3. Analysis of Structures (Analysis, Design And Details of Structures) - Vol.1, V. N. Vazirani, M. M. Ratwani, S. K. Duggal, Khanna Publishers, 1999

4. Basic Structural Analysis, C S Reddy, Tata McGraw Hill Publishers, 2017

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2021-22**

| S.NO | ROLL NO | NAME                 | BRANCH       | YEAR | VALUE ADDED COURSE      |
|------|---------|----------------------|--------------|------|-------------------------|
| 1    | 1807029 | PARMINDER SINGH      | B.tech civil | 4TH  | STRUCTURAL ELUCIDIATION |
| 2    | 1806926 | AMIT KUMAR YADAV     | B.tech civil | 4TH  | STRUCTURAL ELUCIDIATION |
| 3    | 1806928 | ASHISH SHARMA        | B.tech civil | 4TH  | STRUCTURAL ELUCIDIATION |
| 4    | 1904785 | PRINCE               | B.tech civil | 3RD  | STRUCTURAL ELUCIDIATION |
| 5    | 2005333 | NISHANT RAHMAN       | B.tech civil | 3RD  | STRUCTURAL ELUCIDIATION |
| 6    | 2005334 | MOHAMMAD ILAYAS      | B.tech civil | 3RD  | STRUCTURAL ELUCIDIATION |
| 7    | 2005338 | SABEENA NAZIR        | B.tech civil | 3RD  | STRUCTURAL ELUCIDIATION |
| 8    | 2028561 | MOHD IQBAL SHEIKH    | B.tech civil | 3RD  | STRUCTURAL ELUCIDIATION |
| 9    | 1906392 | AKSHAY GOYAL         | B.arch       | 3RD  | STRUCTURAL ELUCIDIATION |
| 10   | 1906393 | ASHWINI THAKREY      | B.arch       | 3RD  | STRUCTURAL ELUCIDIATION |
| 11   | 1906394 | DIKSHA SHARMA        | B.arch       | 3RD  | STRUCTURAL ELUCIDIATION |
| 12   | 1906396 | INDERPREET KAUR      | B.arch       | 3RD  | STRUCTURAL ELUCIDIATION |
| 13   | 1906397 | JETHRO BANDA         | B.arch       | 3RD  | STRUCTURAL ELUCIDIATION |
| 14   | 1935286 | SIMRANJOT SINGH      | B.arch       | 3RD  | STRUCTURAL ELUCIDIATION |
| 15   | 2005284 | JATIN KUMAR BHATIA   | B.tech civil | 2ND  | STRUCTURAL ELUCIDIATION |
| 16   | 2105108 | ABRAR NAZIR SHAH     | B.tech civil | 2ND  | STRUCTURAL ELUCIDIATION |
| 17   | 2105109 | ADNAN HUSSAIN SHEIKH | B.tech civil | 2ND  | STRUCTURAL ELUCIDIATION |
| 18   | 2105110 | AMIT KUMAR           | B.tech civil | 2ND  | STRUCTURAL ELUCIDIATION |
| 19   | 2105111 | HAAFIZ ZAMAL         | B.tech civil | 2ND  | STRUCTURAL ELUCIDIATION |
| 20   | 2105112 | HAZOOOR ALI          | B.tech civil | 2ND  | STRUCTURAL ELUCIDIATION |





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OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

Academic Year 2021-22

Activity organized Report

Date : 12.05.2022

|                               |                                                                                                                                                                                                                                                                                             |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                          |
| Title of Activity             | ANALOG ICS                                                                                                                                                                                                                                                                                  |
| Programme                     | ENGG                                                                                                                                                                                                                                                                                        |
| Date of Commencement          | 03.02.2022                                                                                                                                                                                                                                                                                  |
| Date of Completion            | 12.05.2022                                                                                                                                                                                                                                                                                  |
| Place of activity             | D110                                                                                                                                                                                                                                                                                        |
| No of participants Enrolled   | 20                                                                                                                                                                                                                                                                                          |
| No of participants completed  | 18                                                                                                                                                                                                                                                                                          |
| Course Coordinator and Expert | RUCHI BANKER                                                                                                                                                                                                                                                                                |
| Summary of activity           | The value added course for the Even Semester During the Academic Year 2021-22 was Successfully Organized .The Course On “ANALOG ICS ” was covered .It Was aimed at various course students to understand ics .A total of 20 students registered for the course and 18 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                             |

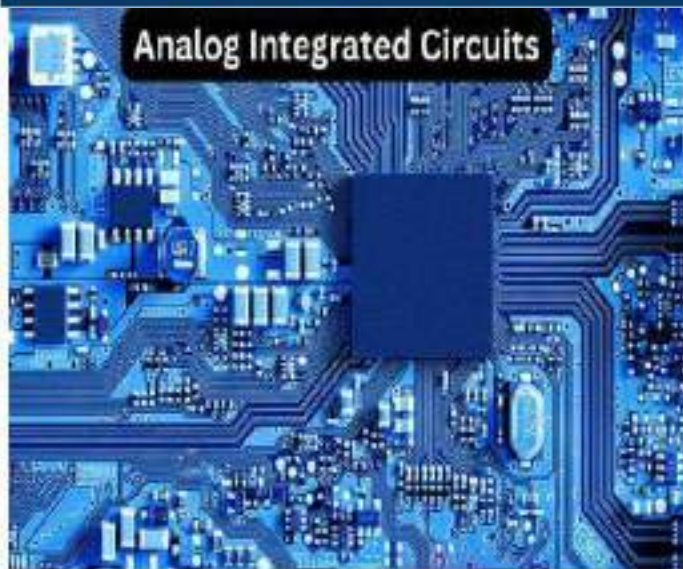
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TECHNICAL  
CAMPUS  
ROPAR



*Value Added  
Course*

# Analog ICs

Commencement from:- 3/2/2022

**Coordinator :-**

**Ruchi Banker**

Department of  
Electrical Engineering



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TECHNICAL  
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ROPAR

IET/DEPT-~~EE~~/055

Date: 31/2/2022

PRINCIPAL  
IET BHADDAL  
ROPAR

Permission For Conducting value added course and allocate faculty member for same

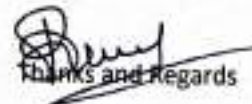
It is to bring to your kind notice that following value added course is finalized For academic Year 2023-24-.The details of value added Course is as follow

| S.no | Name of Value Added Course | Class         | Contact Hrs | Date of Commencement | Expert       |
|------|----------------------------|---------------|-------------|----------------------|--------------|
| 1    | Analog ics                 | EEE,M.TECH EE | 30/45       | 3.2.2022             | RUCHI BANKER |
|      |                            |               |             |                      |              |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

Course co-ordinator

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : info@ietbhaddal.edu.in | Website: www.ietbhaddal.edu.in





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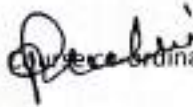
TECHNICAL  
CAMPUS  
ROPAR

LET/VAC/EE/018

DATE 3/2/2022

## NOTICE

It is for the information of all students of - That **EE** department is conducting value added course entitled -Analog ics from -3/2/2022. The Course is scheduled for -30 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

 Coordinator:

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 Head of Department

Cc: principal ( For Kind information please)

Head Of all Departments ( For Information)

IQAC

ALL the notice boards

Phone no: +91-1881-244777, 244606, Fax: 01881-244749

Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)



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| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                       |                |       |      |      |       |                           |      |      |      |       |      |                       |      |       |        |                       |
|------------------------------------------|-----------------------|----------------|-------|------|------|-------|---------------------------|------|------|------|-------|------|-----------------------|------|-------|--------|-----------------------|
| DURATION 3HRS                            |                       |                |       |      |      |       | Name Of Course Analog ics |      |      |      |       |      | Course Duration 45HRS |      |       |        | SIGNATURE             |
| S.no                                     | Name                  | 3/2/           | 10/2/ | 17/2 | 24/2 | 3-Mar | 10/3/                     | 17/3 | 24/3 | 31/3 | 7-Apr | 14/4 | 21/4                  | 28/4 | 5-May | 12-May |                       |
| 1                                        | AIJAZ AHMAD           | 1              | 2     | 3    | 4    | 5     | 6                         | ab   | ab   | 7    | 8     | 9    | ab                    | 10   | 11    | ab     | Aijaz Ahmad           |
| 2                                        | AKSHIT JASWAL         | 1              | 2     | 3    | 4    | ab    | ab                        | 5    | 6    | 7    | ab    | ab   | 8                     | 9    | 10    | 11     | Akshat Jaswal         |
| 3                                        | ANKIT                 | 1              | 2     | 3    | ab   | 4     | 5                         | 6    | 7    | ab   | 8     | 9    | 10                    | 11   | ab    | 12     | Ankit                 |
| 4                                        | BASHI BASHIR          | 1              | ab    | ab   | 2    | 3     | 4                         | 5    | 6    | 7    | 8     | ab   | 9                     | 10   | 11    | 12     | Ankit                 |
| 5                                        | FAYAZ AHMAD DAR       | ab             | 1     | 2    | 3    | 4     | ab                        | 5    | 6    | 7    | 8     | 9    | 10                    | ab   | ab    | 11     | Fayaz Ahmad Dar       |
| 6                                        | MISBAH RIYAZ          | 1              | 2     | 3    | 4    | 5     | 6                         | ab   | ab   | 7    | 8     | 9    | ab                    | 10   | 11    | ab     | Misbah Riyaz          |
| 7                                        | MUZAFFAR MUSHTAQ      | 1              | 2     | 3    | 4    | ab    | ab                        | 5    | 6    | 7    | ab    | ab   | 8                     | 9    | 10    | 11     | Muzaffar Mushtaq      |
| 8                                        | MUZAMIL AHMAD         | 1              | 2     | 3    | ab   | 4     | 5                         | 6    | 7    | ab   | 8     | 9    | 10                    | 11   | ab    | 12     | Muzamil Ahmad         |
| 9                                        | MUZAMIL MUSHTAQ       | 1              | ab    | ab   | 2    | 3     | 4                         | 5    | 6    | 7    | 8     | ab   | 9                     | 10   | 11    | 12     | Muzamil Mushtaq       |
| 10                                       | RAJAT KUMAR           | ab             | 1     | 2    | 3    | 4     | ab                        | 5    | 6    | 7    | 8     | 9    | 10                    | ab   | ab    | 11     | Rajat Kumar           |
| 11                                       | REYAZ AHMAD BHAT      | not registered |       |      |      |       |                           |      |      |      |       |      |                       |      |       |        | Reyaz Ahmad Bhat      |
| 12                                       | SAIMA SHAFI CHOUDHARY | 1              | 2     | 3    | ab   | 4     | 5                         | 6    | 7    | ab   | 8     | 9    | 10                    | 11   | ab    | 12     | Saima Shafi Choudhary |
| 13                                       | SAQIB SHAFI MIR       | 1              | ab    | ab   | 2    | 3     | 4                         | 5    | 6    | 7    | 8     | ab   | 9                     | 10   | 11    | 12     | Saqib Shafi Mir       |
| 14                                       | SATINDER YADAV        | ab             | 1     | 2    | 3    | 4     | ab                        | 5    | 6    | 7    | 8     | 9    | 10                    | ab   | ab    | 11     | Satinder Yadav        |
| 15                                       | SHAKIR HUSSAIN MIR    | 1              | 2     | 3    | 4    | 5     | 6                         | ab   | ab   | 7    | 8     | 9    | ab                    | 10   | 11    | ab     | Shakir Hussain Mir    |
| 16                                       | UMAR KHURSHEED LONE   | not registered |       |      |      |       |                           |      |      |      |       |      |                       |      |       |        | Umar Khursheed Lone   |
| 17                                       | UMER RASHEED MIR      | ab             | 1     | 2    | 3    | 4     | ab                        | 5    | 6    | 7    | 8     | 9    | 10                    | ab   | ab    | 11     | Umer Rasheed Mir      |
| 18                                       | ZAHID MANZOOR         | 1              | 2     | 3    | 4    | 5     | 6                         | ab   | ab   | 7    | 8     | 9    | ab                    | 10   | 11    | ab     | Zahid Manzoor         |
| 19                                       | NIKHIL DHIMAN         | 1              | 2     | 3    | 4    | ab    | ab                        | 5    | 6    | 7    | ab    | ab   | 8                     | 9    | 10    | 11     | Nikhil Dhiman         |
| 20                                       | NITESH                | 1              | 2     | 3    | ab   | 4     | 5                         | 6    | 7    | ab   | 8     | 9    | 10                    | 11   | ab    | 12     | Nitesh                |

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# **ANALOG ICS**

## **SYLLABUS**

Introduction to analog VLSI and mixed signal issues in CMOS technologies; Basic MOS models, SPICE Models and frequency dependent parameters; Basic MNOS/CMOS gain stage, cascade and cascode circuits; Frequency response, stability and noise issues in amplifiers; CMOS analog blocks: Current Sources and Voltage references; Differential amplifier and OPAMP design; Frequency Synthesizers and Phased lock-loops; Non-linear analog blocks: comparators, charge-pump circuits and multipliers; Basics of data converters; Analog Testing and Layout issues; Low Voltage and Low Power Circuits; Introduction to RF Electronics.

### **Texts / References:**

B. Razavi, Design of Analog CMOS Integrated Circuits, McGraw Hill 2001

P. E. Allen and D. R. Holberg, CMOS Analog Circuit Design, 2nd edition, Oxford University Press, 1997

B. Razavi, RF Microelectronics, Prentice-Hall, 1998.

R. Jacob Baker, CMOS Circuit Design, Layout, and Simulation, IEEE Press, 1997.

P. R. Gray and R. G. Meyer, Analysis and design of Analog Integrated circuits 4th Edition, Wiley Student Edition, 2001.

D. A. Johns and K. Martin, Analog Integrated Circuit Design, Wiley Student Edition,

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2021-22**

| S.NO | ROLL NO | NAME                  | BRANCH    | YEAR | VALUE ADDED COURSE |
|------|---------|-----------------------|-----------|------|--------------------|
| 1    | 2105146 | AIJAZ AHMAD           | M.Tech EE | 1ST  | ANALOG ICS         |
| 2    | 2105147 | AKSHIT JASWAL         | M.Tech EE | 1ST  | ANALOG ICS         |
| 3    | 2105148 | ARSHDEEP SINGH        | M.Tech EE | 1ST  | ANALOG ICS         |
| 4    | 2105149 | BASHI BASHIR          | M.Tech EE | 1ST  | ANALOG ICS         |
| 5    | 2105150 | FAYAZ AHMAD DAR       | M.Tech EE | 1ST  | ANALOG ICS         |
| 6    | 2105151 | MISBAH RIYAZ          | M.Tech EE | 1ST  | ANALOG ICS         |
| 7    | 2105152 | MUZAFFAR MUSHTAQ      | M.Tech EE | 1ST  | ANALOG ICS         |
| 8    | 2105153 | MUZAMIL AHMAD PADDAR  | M.Tech EE | 1ST  | ANALOG ICS         |
| 9    | 2105154 | MUZAMIL MUSHTAQ       | M.Tech EE | 1ST  | ANALOG ICS         |
| 10   | 2105155 | RAJAT KUMAR           | M.Tech EE | 1ST  | ANALOG ICS         |
| 11   | 2105156 | REYAZ AHMAD BHAT      | M.Tech EE | 1ST  | ANALOG ICS         |
| 12   | 2105157 | SAIMA SHAFI CHOUDHARY | M.Tech EE | 1ST  | ANALOG ICS         |
| 13   | 2105158 | SAQIB SHAFI MIR       | M.Tech EE | 1ST  | ANALOG ICS         |
| 14   | 2105159 | SATINDER YADAV        | M.Tech EE | 1ST  | ANALOG ICS         |
| 15   | 2105160 | SHAKIR HUSSAIN MIR    | M.Tech EE | 1ST  | ANALOG ICS         |
| 16   | 2105161 | UMAR KHURSHEED LONE   | M.Tech EE | 1ST  | ANALOG ICS         |
| 17   | 2105162 | UMER RASHEED MIR      | M.Tech EE | 1ST  | ANALOG ICS         |
| 18   | 2105163 | ZAHID MANZOOR         | M.Tech EE | 1ST  | ANALOG ICS         |
| 19   | 2105125 | NIKHIL DHIMAN         | B.tech ee | 2ND  | ANALOG ICS         |
| 20   | 2105126 | NITESH                | B.Tech EE | 2ND  | ANALOG ICS         |

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# IETBHADDAL

TECHNICAL  
CAMPUS  
OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

## Academic Year 2021-22

### Activity organized Report

Date : 15.04.2022

|                               |                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                                                      |
| Title of Activity             | Advance Computer Application I/II                                                                                                                                                                                                                                                                                                                       |
| Programme                     | ENGG,MCA                                                                                                                                                                                                                                                                                                                                                |
| Date of Commencement          | 7-1-2022                                                                                                                                                                                                                                                                                                                                                |
| Date of Completion            | 15.04.2022                                                                                                                                                                                                                                                                                                                                              |
| Place of activity             | C BLOCK SEMINAR HALL                                                                                                                                                                                                                                                                                                                                    |
| No of participants Enrolled   | 18                                                                                                                                                                                                                                                                                                                                                      |
| No of participants completed  | 16                                                                                                                                                                                                                                                                                                                                                      |
| Course Coordinator and Expert | BARINDERJIT KAUR                                                                                                                                                                                                                                                                                                                                        |
| Summary of activity           | The value added course for the Even Semester During the Academic Year 2021-22 was Successfully Organized .The Course On “ ADVANCE COMPUTER APPLICATIONS 1/11” was covered .It Was aimed at various course students to aquire knowledge of latest applications in Computer.A total of 18 students registered for the course and 16 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                                                         |

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ROPAR



## value added course



**COMMENCEMENT FROM:- 7/1/2022**

**Coordinator:- Barinderjit Kaur**  
**Department of MCA**

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IET/VACCSE/14

DATE 7/1/2022

## NOTICE

It is for the information of all students of - That **CSE** department is conducting value added course entitled - **Advance Computer Application I/II** from -07/1/2022. The Course is scheduled for -30 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

Course Coordinator:

Head of Department

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Head Of all Departments ( For Information)  
IQAC  
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ROPAR

IET/DEPT-CSE/155

Date: 7/17/2022

PRINCIPAL  
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ROPAR

Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2023-24-.The details of value added Course is as follow

| S.no | Name of Value Added Course        | Class          | Contact Hrs | Date of Commencement | Expert           |
|------|-----------------------------------|----------------|-------------|----------------------|------------------|
| 1    | Advance Computer Application I/II | CSE,MCA,M.TECH | 30/45       | 7-1-2022             | BARINDERJIT KAUR |
|      |                                   |                |             |                      |                  |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

Course co-ordinator

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
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Debt JCSB  
2021-22

# ATTENDANCE SHEET FOR VALUE ADDED COURSES

| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                   |                                                  |      |      |      |     |      |      |      |     |      |      |      |     |     |      |                        |  |           |
|------------------------------------------|-------------------|--------------------------------------------------|------|------|------|-----|------|------|------|-----|------|------|------|-----|-----|------|------------------------|--|-----------|
| DURATION 3 HRS/WEEK                      |                   | Name Of Course Advance Computer Application I/II |      |      |      |     |      |      |      |     |      |      |      |     |     |      | Course Duration 45 HRS |  | SIGNATURE |
| S.no                                     | Name              | 7/1                                              | 14/1 | 21/1 | 28/1 | 4/2 | 11/2 | 18/2 | 25/2 | 4/3 | 11/3 | 18/3 | 25/3 | 1/4 | 8/4 | 15/4 |                        |  |           |
| 1                                        | MANISHA DEVI      | 1                                                | 2    | Ab   | AB   | 3   | 4    | 5    | ab   | ab  | 6    | 7    | 8    | 9   | 10  | 11   | Manisha Devi           |  |           |
| 2                                        | PRINCEDEEP SINGH  | ab                                               | ab   | ab   | 1    | 2   | 3    | 4    | 5    | 6   | 7    | 8    | ab   | 9   | ab  | 10   | Prince Deep Singh      |  |           |
| 3                                        | SHEIKH UMMAR      | 1                                                | 2    | 3    | 4    | ab  | ab   | ab   | 5    | 6   | 7    | 8    | 9    | ab  | 10  | 11   | Sheikh Ummar           |  |           |
| 4                                        | TENZIN TASHI      | 1                                                | 2    | 3    | 4    | 5   | 6    | 7    | 8    | 9   | ab   | ab   | 10   | 11  | 12  | ab   | Tenzin Tashi           |  |           |
| 5                                        | ZOSANGZUALI FANAI | 1                                                | 2    | Ab   | AB   | 3   | 4    | 5    | ab   | ab  | 6    | 7    | 8    | 9   | 10  | 11   | Zosangzuali Fanai      |  |           |
| 6                                        | NATESH KUMAR      | ab                                               | ab   | ab   | 1    | 2   | 3    | 4    | 5    | 6   | 7    | 8    | ab   | 9   | ab  | 10   | Natesh Kumar           |  |           |
| 7                                        | ROHAN GILL        | 1                                                | 2    | 3    | 4    | ab  | ab   | ab   | 5    | 6   | 7    | 8    | 9    | ab  | 10  | 11   | Rohan Gill             |  |           |
| 8                                        | YASH CHAUHAN      | 1                                                | 2    | 3    | 4    | 5   | 6    | 7    | 8    | 9   | ab   | ab   | 10   | 11  | 12  | ab   | Yash Chauhan           |  |           |
| 9                                        | SHUBHAM           | 1                                                | 2    | Ab   | AB   | 3   | 4    | 5    | ab   | ab  | 6    | 7    | 8    | 9   | 10  | 11   | Shubham                |  |           |
| 10                                       | AMIT VERMA        | ab                                               | ab   | ab   | 1    | 2   | 3    | 4    | 5    | 6   | 7    | 8    | ab   | 9   | ab  | 10   | Amit Verma             |  |           |
| 11                                       | BASHAR HOSSEN     | 1                                                | 2    | 3    | 4    | ab  | ab   | ab   | 5    | 6   | 7    | 8    | 9    | ab  | 10  | 11   | Bashar Hossen          |  |           |
| 12                                       | FAYSAL MONDAL     | 1                                                | 2    | 3    | 4    | 5   | 6    | 7    | 8    | 9   | ab   | ab   | 10   | 11  | 12  | ab   | Fayal Mondal           |  |           |
| 13                                       | KANIKA            | 1                                                | 2    | Ab   | AB   | 3   | 4    | 5    | ab   | ab  | 6    | 7    | 8    | 9   | 10  | 11   | Kanika                 |  |           |
| 14                                       | KRIKA BANSAL      | ab                                               | ab   | ab   | 1    | 2   | 3    | 4    | 5    | 6   | 7    | 8    | ab   | 9   | ab  | 10   | Krika Bansal           |  |           |
| 15                                       | LALIT KUMAR       | 1                                                | 2    | 3    | 4    | ab  | ab   | ab   | 5    | 6   | 7    | 8    | 9    | ab  | 10  | 11   | Lalit Kumar            |  |           |
| 16                                       | LOVPREET KAUR     | 1                                                | 2    | 3    | 4    | 5   | 6    | 7    | 8    | 9   | ab   | ab   | 10   | 11  | 12  | ab   | Lovpreet Kaur          |  |           |
| 17                                       | NISHITA THAKUR    | 1                                                | 2    | Ab   | AB   | 3   | 4    | 5    | ab   | ab  | 6    | 7    | 8    | 9   | 10  | 11   | Nishita Thakur         |  |           |
| 18                                       | SAMARJIT JHADAI   | ab                                               | ab   | ab   | 1    | 2   | 3    | 4    | 5    | 6   | 7    | 8    | ab   | 9   | ab  | 10   | Samarjit Jhadai        |  |           |

*Shublakshan Singh Bindra*

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# **ADVANCE COMPUTER APPLICATIONS**

## **SYLLABUS**

Networking: fundamentals, LAN/MAN/WAN, topologies, transmission media, ISDN, B-ISDN, protocols- TCP/IP, OSI, ATM, internet services; hardware and software requirements for internet;

browsers- internet explorer, mozillafirefox, opera, google chrome; search engines; webpage. Information technology application in business, E-business, net banking; online purchasing and selling; online banking, electronic payment systems- an overview.

E-governance- concept and examples. digitalization of services – income tax, digital lockers, etc. Edisha, etc., linking

AADHAR to service – issues and impact.

Social and ethical aspects of IT. Cyber Laws – IT Act 2000, impact of IT on other laws concerning

business;

cyber security – threats, anti-virus software, firewalls, etc.

**SHUBLAKS  
HAN SINGH  
BINDRA**

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2021-22**

| S.NO | ROLL NO | NAME                | BRANCH     | YEAR | VALUE ADDED COURSE                |
|------|---------|---------------------|------------|------|-----------------------------------|
| 1    | 1906413 | MANISHA DEVI        | B-TECH CSE | 3rd  | Advance Computer Application I/II |
| 2    | 1906414 | PRINCEDEEP SINGH    | B-TECH CSE | 3rd  | Advance Computer Application I/II |
| 3    | 1906416 | SHEIKH UMMAR SAROOQ | B-TECH CSE | 3rd  | Advance Computer Application I/II |
| 4    | 1906418 | TENZIN TASHI        | B-TECH CSE | 3rd  | Advance Computer Application I/II |
| 5    | 1906421 | ZOSANGZUALI FANAI   | B-TECH CSE | 3rd  | Advance Computer Application I/II |
| 6    | 2005339 | NATESH KUMAR        | B-TECH CSE | 3rd  | Advance Computer Application I/II |
| 7    | 2005340 | ROHAN GILL          | B-TECH CSE | 3rd  | Advance Computer Application I/II |
| 8    | 2005341 | YASH CHAUHAN        | B-TECH CSE | 3rd  | Advance Computer Application I/II |
| 9    | 1708155 | SHUBHAM             | B-TECH CSE | 3rd  | Advance Computer Application I/II |
| 10   | 2105024 | AMIT VERMA          | B-TECH CSE | 1st  | Advance Computer Application I/II |
| 11   | 2105025 | BASHAR HOSSEN       | B.TECH CSE | 1st  | Advance Computer Application I/II |
| 12   | 2105031 | FAYSAL MONDAL       | B.TECH CSE | 1st  | Advance Computer Application I/II |
| 13   | 2105027 | KANIKA              | B-TECH CSE | 1st  | Advance Computer Application I/II |
| 14   | 2105028 | KRIKA BANSAL        | B.TECH CSE | 1st  | Advance Computer                  |

|    |         |                    |            |     |                                         |
|----|---------|--------------------|------------|-----|-----------------------------------------|
|    |         |                    |            |     | Application I/II                        |
| 15 | 2105029 | LALIT KUMAR        | B.TECH CSE | 1st | Advance<br>Computer<br>Application I/II |
| 16 | 2105030 | LOVPREET KAUR      | B.TECH CSE | 1st | Advance<br>Computer<br>Application I/II |
| 17 | 2105032 | NISHITA<br>THAKUR  | B.TECH CSE | 1st | Advance<br>Computer<br>Application I/II |
| 18 | 2105033 | SAMARJIT<br>JHADAI | B.TECH CSE | 1st | Advance<br>Computer<br>Application I/II |

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# IETBHADDAL

TECHNICAL  
CAMPUS  
OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

SHUBLAK  
SHAN  
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BINDRA

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Resource Person

Head of Department

Principal

Date of issue

### 1.2.1 QnM Number of Add on /Certificate/Value added programs offered during 2020-21

| Name of Certificate/ Value added course offered and online courses of OOCs, SWAYAM, NPTEL etc. where the students of the institution have enrolled and successfully completed | Course Code | Period (from date - to date) | Duration of course | Number of students enrolled in the year | Link |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------|--------------------|-----------------------------------------|------|
| GIS                                                                                                                                                                           | VAIET12     | 14/7/2020 to 20/10/2020      | 45 hrs             | 15                                      | VIEW |
| BIOLOGY OF ENGINEERS                                                                                                                                                          | VAIET13     | 28/7/2020 to 3/11/2020       | 45 hrs             | 18                                      | VIEW |
| BIG DATA ANALYSIS                                                                                                                                                             | VAIET14     | 13/7/2020 to 19/10/2020      | 45 hrs             | 25                                      | VIEW |
| SELF MANAGEMENT                                                                                                                                                               | VAIET15     | 21/7/2020 to 27/10/2020      | 45 hrs             | 18                                      | VIEW |
| STAAD PRO                                                                                                                                                                     | VAIET16     | 28/7/2020 to 3/11/2020       | 45 hrs             | 25                                      | VIEW |
| CRYPTO CURRENCY                                                                                                                                                               | VAIET17     | 8/2/2021 to 17/05/2021       | 45 hrs             | 25                                      | VIEW |
| WIND ENERGY                                                                                                                                                                   | VAIET18     | 18/1/2021 to 26/4/2021       | 45 hrs             | 20                                      | VIEW |
| MATERIAL PROCESSING                                                                                                                                                           | VAIET19     | 20/1/2021 to 28/04/2021      | 45 hrs             | 26                                      | VIEW |
| ESTIMATION OF REINFORCEMENT                                                                                                                                                   | VAIET20     | 14/01/2021 to 22/04/2021     | 45 hrs             | 13                                      | VIEW |

SHUBLAKSHAN SINGH  
 HAN SINGH  
 BINDRA

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2020-21**

| S.NO  | PROGRAM NAME | TOTAL NO OF STUDENTS | NO OF STUDENTS ENROLLED WITHOUT REPEAT |
|-------|--------------|----------------------|----------------------------------------|
| 1     | B.TECH CSE   | 28                   | 28                                     |
| 2     | B.TECH ECE   | 0                    | 0                                      |
| 3     | B.TECH EE    | 15                   | 15                                     |
| 4     | B.TECH CIVIL | 19                   | 19                                     |
| 5     | B.TECH ME    | 49                   | 45                                     |
| 6     | B.ARCH       | 22                   | 22                                     |
| 7     | M.TECH CSE   | 8                    | 8                                      |
| 8     | M.TECH EE    | 0                    | 0                                      |
| 9     | MBA          | 30                   | 30                                     |
| 10    | MCA          | 14                   | 14                                     |
| 11    | MARCH        | 0                    | 0                                      |
| TOTAL |              | 185                  | 181                                    |

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2020-21**

| S.NO | ROLL NO | NAME                | BRANCH     | YEAR | VALUE ADDED COURSE   |
|------|---------|---------------------|------------|------|----------------------|
| 1    | 1934521 | BHARTI SONI         | MCA        | 2nd  | BIG DATA ANALYSIS    |
| 2    | 1934519 | DEEPANSHU TANDOU    | MCA        | 2nd  | BIG DATA ANALYSIS    |
| 3    | 1906462 | JATIN GAUTAM        | MCA        | 2nd  | BIG DATA ANALYSIS    |
| 4    | 1906463 | JYOTI DEVI          | MCA        | 2nd  | BIG DATA ANALYSIS    |
| 5    | 1906464 | KIRANDEEP KAUR      | MCA        | 2nd  | BIG DATA ANALYSIS    |
| 6    | 1906465 | KIRANPREET KAUR     | MCA        | 2nd  | BIG DATA ANALYSIS    |
| 7    | 1906466 | MANPREET KAUR       | MCA        | 2nd  | BIG DATA ANALYSIS    |
| 8    | 1906469 | RAJNISH KAUR        | MCA        | 2nd  | BIG DATA ANALYSIS    |
| 9    | 1906470 | RAMANPREET KAUR     | MCA        | 2nd  | BIG DATA ANALYSIS    |
| 10   | 1906471 | RAVINDER KAUR       | MCA        | 2nd  | BIG DATA ANALYSIS    |
| 11   | 2005344 | GURSIMRAN KAUR      | M.Tech     | 1st  | BIG DATA ANALYSIS    |
| 12   | 2005345 | MANDEEP KUMAR       | M.Tech     | 1st  | BIG DATA ANALYSIS    |
| 13   | 2005346 | RIZWAN RASOOL       | M.Tech     | 1st  | BIG DATA ANALYSIS    |
| 14   | 2005347 | SHARIQ BASHIR       | M.Tech     | 1st  | BIG DATA ANALYSIS    |
| 15   | 1906407 | JAGDEEP KAUR        | B.Tech CSE | 2nd  | BIG DATA ANALYSIS    |
| 16   | 1906410 | KIRAN               | B.Tech CSE | 2nd  | BIG DATA ANALYSIS    |
| 17   | 1906411 | KULVEER SINGH       | B.Tech CSE | 2nd  | BIG DATA ANALYSIS    |
| 18   | 1906412 | KUSHAL BHALWAL      | B.Tech CSE | 2nd  | BIG DATA ANALYSIS    |
| 19   | 1906413 | MANISHA DEVI        | B.Tech CSE | 2nd  | BIG DATA ANALYSIS    |
| 20   | 1906414 | PRINCEDEEP SINGH    | B.Tech CSE | 2nd  | BIG DATA ANALYSIS    |
| 21   | 1906416 | SHEIKH UMMAR SAROOQ | B.Tech CSE | 2nd  | BIG DATA ANALYSIS    |
| 22   | 1906418 | TENZIN TASHI        | B.Tech CSE | 2nd  | BIG DATA ANALYSIS    |
| 23   | 1906421 | ZOSANGZUALI FANAI   | B.Tech CSE | 2nd  | BIG DATA ANALYSIS    |
| 24   | 2005339 | NATESH KUMAR        | B.Tech CSE | 2nd  | BIG DATA ANALYSIS    |
| 25   | 2005340 | ROHAN GILL          | B.Tech CSE | 2nd  | BIG DATA ANALYSIS    |
| 26   | 1708193 | AMIT KUMAR          | B.Tech ME  | 4TH  | BIOLOGY OF ENGINEERS |
| 27   | 1708195 | BHAGAT SINGH        | B.Tech ME  | 4TH  | BIOLOGY OF ENGINEERS |
| 28   | 1708196 | CHIRAG SHARMA       | B.Tech ME  | 4TH  | BIOLOGY OF ENGINEERS |
| 29   | 1708197 | HAPPY               | B.Tech ME  | 4TH  | BIOLOGY OF ENGINEERS |
| 30   | 1708198 | HARBHAJAN SINGH     | B.Tech ME  | 4TH  | BIOLOGY OF ENGINEERS |
| 31   | 1708202 | NAVJOT SINGH        | B.Tech ME  | 4TH  | BIOLOGY OF ENGINEERS |
| 32   | 1708203 | NIKHIL SINGH        | B.Tech ME  | 4TH  | BIOLOGY OF ENGINEERS |
| 33   | 1708207 | PAWAN KUMAR         | B.Tech ME  | 4TH  | BIOLOGY OF ENGINEERS |
| 34   | 1708208 | SHIVAM GAUR         | B.Tech ME  | 4TH  | BIOLOGY OF ENGINEERS |
| 35   | 1708209 | SUKHPREET SINGH     | B.Tech ME  | 4TH  | BIOLOGY OF ENGINEERS |
| 36   | 1807009 | AKSHIT JOSHI        | B.Tech ME  | 3RD  | BIOLOGY OF ENGINEERS |
| 37   | 1807010 | ANMOL SHARMA        | B.Tech ME  | 3RD  | BIOLOGY OF           |

|    |         |                    |              |     |                             |
|----|---------|--------------------|--------------|-----|-----------------------------|
|    |         |                    |              |     | ENGINEERS                   |
| 38 | 1807011 | ASHOOK KUMAR SAH   | B.Tech ME    | 3RD | BIOLOGY OF ENGINEERS        |
| 39 | 1807012 | BALWINDER SINGH    | B.Tech ME    | 3RD | BIOLOGY OF ENGINEERS        |
| 40 | 1834619 | DURGESH TIWARI     | B.Tech ME    | 3RD | BIOLOGY OF ENGINEERS        |
| 41 | 1807013 | GURCHARAN SINGH    | B.Tech ME    | 3RD | BIOLOGY OF ENGINEERS        |
| 42 | 1834620 | HANISH THAKUR      | B.Tech ME    | 3RD | BIOLOGY OF ENGINEERS        |
| 43 | 1834621 | Manoj Sharma       | B.Tech ME    | 3RD | BIOLOGY OF ENGINEERS        |
| 44 | 2005305 | AMANPREET KAUR     | MBA          | 1ST | CRYPTO CURRENCY             |
| 45 | 2005306 | AMANPREET SINGH    | MBA          | 1ST | CRYPTO CURRENCY             |
| 46 | 2005307 | ATHAR TANVEER DAR  | MBA          | 1ST | CRYPTO CURRENCY             |
| 47 | 2005308 | BHARAT PANDITA     | MBA          | 1ST | CRYPTO CURRENCY             |
| 48 | 2005312 | IQBAL SINGH        | MBA          | 1ST | CRYPTO CURRENCY             |
| 49 | 2005315 | KIRANDEEP KAUR     | MBA          | 1ST | CRYPTO CURRENCY             |
| 50 | 2005317 | MAHINDER KAUR      | MBA          | 1ST | CRYPTO CURRENCY             |
| 51 | 2005318 | MANJEET KAUR       | MBA          | 1ST | CRYPTO CURRENCY             |
| 52 | 2005320 | MANPREET KAUR      | MBA          | 1ST | CRYPTO CURRENCY             |
| 53 | 2005321 | MANVIR KAUR        | MBA          | 1ST | CRYPTO CURRENCY             |
| 54 | 2005326 | SARBJIT KAUR       | MBA          | 1ST | CRYPTO CURRENCY             |
| 55 | 2005329 | SIMRANPREET KAUR   | MBA          | 1ST | CRYPTO CURRENCY             |
| 56 | 1934537 | AAMIR AHMAD KAMKAR | MBA          | 2ND | CRYPTO CURRENCY             |
| 57 | 1906424 | AMANDEEP KAUR      | MBA          | 2ND | CRYPTO CURRENCY             |
| 58 | 1906425 | ANILPREET SASAN    | MBA          | 2ND | CRYPTO CURRENCY             |
| 59 | 1906426 | DALJEET KAUR       | MBA          | 2ND | CRYPTO CURRENCY             |
| 60 | 1906427 | DIKSHA POSWAL      | MBA          | 2ND | CRYPTO CURRENCY             |
| 61 | 1906429 | KARAMJIT KAUR      | MBA          | 2ND | CRYPTO CURRENCY             |
| 62 | 1906430 | MANPREET KAUR      | MBA          | 2ND | CRYPTO CURRENCY             |
| 63 | 1906431 | MUKESH KUMAR       | MBA          | 2ND | CRYPTO CURRENCY             |
| 64 | 1906432 | RAMANDEEP KAUR     | MBA          | 2ND | CRYPTO CURRENCY             |
| 65 | 1906433 | REEMA SOOD         | MBA          | 2ND | CRYPTO CURRENCY             |
| 66 | 1906434 | SATKIRAT KAUR      | MBA          | 2ND | CRYPTO CURRENCY             |
| 67 | 1906435 | SHUBHAM            | MBA          | 2ND | CRYPTO CURRENCY             |
| 68 | 1934532 | SUKHDEEP KAUR      | MBA          | 2ND | CRYPTO CURRENCY             |
| 69 | 1608645 | Gaurav Verma       | B.Arch       | 5TH | ESTIMATION OF REINFORCEMENT |
| 70 | 1608646 | Geetanjali Sharma  | B.Arch       | 5TH | ESTIMATION OF REINFORCEMENT |
| 71 | 1608647 | Mandhir Singh      | B.Arch       | 5TH | ESTIMATION OF REINFORCEMENT |
| 72 | 1608648 | NITIN DOGRA        | B.Arch       | 5TH | ESTIMATION OF REINFORCEMENT |
| 73 | 1608649 | Prachi Walia       | B.Arch       | 5TH | ESTIMATION OF REINFORCEMENT |
| 74 | 1608650 | PRIYANKA KAUSHAL   | B.Arch       | 5TH | ESTIMATION OF REINFORCEMENT |
| 75 | 1608651 | Randeep Kaur       | B.Arch       | 5TH | ESTIMATION OF REINFORCEMENT |
| 76 | 1708093 | PRIYA              | B.tech Civil | 4TH | ESTIMATION OF REINFORCEMENT |
| 77 | 1708094 | RAHUL RAJ          | B.tech Civil | 4TH | ESTIMATION OF REINFORCEMENT |
| 78 | 1708095 | RANBEER THAKUR     | B.tech Civil | 4TH | ESTIMATION OF REINFORCEMENT |

|     |         |                    |              |     |                                 |
|-----|---------|--------------------|--------------|-----|---------------------------------|
| 79  | 1708096 | RAVNEET KAUR       | B.tech Civil | 4TH | ESTIMATION OF REINFORCEMENT     |
| 80  | 1708097 | SANGHARSH KAITH    | B.tech Civil | 4TH | ESTIMATION OF REINFORCEMENT     |
| 81  | 1708098 | SANU KUMAR THAPA   | B.tech Civil | 4TH | ESTIMATION OF REINFORCEMENT     |
| 82  | 1708052 | ADITYA GUPTA       | B.arch       | 4th | GEOGRAPHICAL INFORMATION SYSTEM |
| 83  | 1708053 | ANIT KUMAR         | B.arch       | 4th | GEOGRAPHICAL INFORMATION SYSTEM |
| 84  | 1708054 | ANJALI             | B.arch       | 4th | GEOGRAPHICAL INFORMATION SYSTEM |
| 85  | 1708055 | HARJEEVAN KAUR     | B.arch       | 4th | GEOGRAPHICAL INFORMATION SYSTEM |
| 86  | 1708056 | ISHA SHARMA        | B.arch       | 4th | GEOGRAPHICAL INFORMATION SYSTEM |
| 87  | 1708058 | MEHAK ARORA        | B.arch       | 4th | GEOGRAPHICAL INFORMATION SYSTEM |
| 88  | 1708059 | NANDINI SINGH      | B.arch       | 4th | GEOGRAPHICAL INFORMATION SYSTEM |
| 89  | 1806933 | kismat kumar       | B.Tech Civil | 3rd | GEOGRAPHICAL INFORMATION SYSTEM |
| 90  | 1806935 | MOHAMMAD AFJAL     | B.Tech Civil | 3rd | GEOGRAPHICAL INFORMATION SYSTEM |
| 91  | 1806937 | MWANAWINA MULAMBWA | B.Tech Civil | 3rd | GEOGRAPHICAL INFORMATION SYSTEM |
| 92  | 1806939 | nitin kumar        | B.Tech Civil | 3rd | GEOGRAPHICAL INFORMATION SYSTEM |
| 93  | 1834617 | RAJAN MANDAL       | B.Tech Civil | 3rd | GEOGRAPHICAL INFORMATION SYSTEM |
| 94  | 1806941 | SIMWANAZA ALLAN    | B.Tech Civil | 3rd | GEOGRAPHICAL INFORMATION SYSTEM |
| 95  | 1806943 | ZOLIANSANGI        | B.Tech Civil | 3rd | GEOGRAPHICAL INFORMATION SYSTEM |
| 96  | 1834622 | Arjuman Rafiq      | B.Tech Civil | 3rd | GEOGRAPHICAL INFORMATION SYSTEM |
| 97  | 1708208 | SHIVAM GAUD        | B.Tech ME    | 4th | MATERIALS PROCESSING            |
| 98  | 1708224 | AKHIL THAKUR       | B.Tech ME    | 4th | MATERIALS PROCESSING            |
| 99  | 1708225 | AMRINDER SINGH     | B.Tech ME    | 4th | MATERIALS PROCESSING            |
| 100 | 1708226 | SHREY SOOD         | B.Tech ME    | 4th | MATERIALS PROCESSING            |
| 101 | 1708201 | MUKUL KUMAR        | B.Tech ME    | 4th | MATERIALS                       |



|     |         |                       |           |     |                      |
|-----|---------|-----------------------|-----------|-----|----------------------|
|     |         |                       |           |     | PROCESSING           |
| 102 | 1708202 | NAVJOT SINGH          | B.Tech ME | 4th | MATERIALS PROCESSING |
| 103 | 1804982 | TARUN BAINS           | B.Tech ME | 3rd | MATERIALS PROCESSING |
| 104 | 1807028 | BIKRAMJEET SINGH      | B.Tech ME | 3rd | MATERIALS PROCESSING |
| 105 | 1834626 | MOHAMMAD ASLAM WANI   | B.Tech ME | 3rd | MATERIALS PROCESSING |
| 106 | 1807012 | BALWINDER SINGH       | B.Tech ME | 3rd | MATERIALS PROCESSING |
| 107 | 1834619 | DURGESH TIWARI        | B.Tech ME | 3rd | MATERIALS PROCESSING |
| 108 | 1807013 | GURCHARAN SINGH       | B.Tech ME | 3rd | MATERIALS PROCESSING |
| 109 | 1807009 | Manoj Sharma          | B.Tech ME | 3rd | MATERIALS PROCESSING |
| 110 | 1807010 | Umesh Singh Chandel   | B.Tech ME | 3rd | MATERIALS PROCESSING |
| 111 | 1807011 | VINAYAK KAUSHAL       | B.Tech ME | 3rd | MATERIALS PROCESSING |
| 112 | 1807012 | nitiin                | B.Tech ME | 3rd | MATERIALS PROCESSING |
| 113 | 1834619 | tarun bains           | B.Tech ME | 3rd | MATERIALS PROCESSING |
| 114 | 1906437 | CHAKSHU PURI          | B.Tech ME | 2nd | MATERIALS PROCESSING |
| 115 | 1906438 | GANESH KUMAR          | B.Tech ME | 2nd | MATERIALS PROCESSING |
| 116 | 1906439 | HARMANPREET SINGH     | B.Tech ME | 2nd | MATERIALS PROCESSING |
| 117 | 1906441 | NIKHIL BANGA          | B.Tech ME | 2nd | MATERIALS PROCESSING |
| 118 | 1906442 | PRERNA SHARMA         | B.Tech ME | 2nd | MATERIALS PROCESSING |
| 119 | 1934518 | ROHIT THAKUR          | B.Tech ME | 2nd | MATERIALS PROCESSING |
| 120 | 1906444 | SHEKHAR               | B.Tech ME | 2nd | MATERIALS PROCESSING |
| 121 | 1906445 | SHIVJEET SINGH        | B.Tech ME | 2nd | MATERIALS PROCESSING |
| 122 | 1934517 | SIKAS BATTA           | B.Tech ME | 2nd | MATERIALS PROCESSING |
| 123 | 2005321 | MANVIR KAUR           | MBA       | 1ST | SELF MANAGEMENT      |
| 124 | 2005326 | SARBJIT KAUR          | MBA       | 1ST | SELF MANAGEMENT      |
| 125 | 2005329 | SIMRANPREET KAUR      | MBA       | 1ST | SELF MANAGEMENT      |
| 126 | 1934537 | AAMIR AHMAD KAMKAR    | MBA       | 2nd | SELF MANAGEMENT      |
| 127 | 1906424 | AMANDEEP KAUR         | MBA       | 2nd | SELF MANAGEMENT      |
| 128 | 1806917 | ABHISHEK PRASAD       | B.arch    | 3rd | SELF MANAGEMENT      |
| 129 | 1806918 | KARAM GURPARTAP SINGH | B.arch    | 3rd | SELF MANAGEMENT      |
| 130 | 1806919 | RAJAT                 | B.arch    | 3rd | SELF MANAGEMENT      |
| 131 | 1806920 | SAHIL                 | B.arch    | 3rd | SELF MANAGEMENT      |
| 132 | 1806922 | SHREYA JAIN           | B.arch    | 3rd | SELF MANAGEMENT      |
| 133 | 1806923 | SIMRANJIT KAUR        | B.arch    | 3rd | SELF MANAGEMENT      |
| 134 | 1806924 | Sourav K              | B.arch    | 3rd | SELF MANAGEMENT      |
| 135 | 1806925 | SUMEGHA SHARMA        | B.arch    | 3rd | SELF MANAGEMENT      |
| 136 | 1806983 | GOPAL SHARMA          | B.Tech EE | 3rd | SELF MANAGEMENT      |
| 137 | 1806984 | JAGMOHAN SINGH        | B.Tech EE | 3rd | SELF MANAGEMENT      |



# IET BHADDAL

Campus: Bhaddal, PO Mianpur, Distt. Ropar, Punjab-140108 (India)  
UGC approved (2f & 12B) | Affiliated to IKG-PTU (Jalandhar)

## TECHNICAL CAMPUS ROPAR

|     |         |                        |              |     |                 |
|-----|---------|------------------------|--------------|-----|-----------------|
| 138 | 1806985 | KESHAV                 | B.Tech EE    | 3rd | SELF MANAGEMENT |
| 139 | 1806986 | LUMANO<br>MWELEMKA     | B.Tech EE    | 3rd | SELF MANAGEMENT |
| 140 | 1806987 | MANDEEP SINGH          | B.Tech EE    | 3rd | SELF MANAGEMENT |
| 141 | 1708152 | SHARNTH THAKUR         | B.Tech CSE   | 4th | STAAD PRO       |
| 142 | 1708153 | SHIVBAM KUMAR          | B.Tech CSE   | 4th | STAAD PRO       |
| 143 | 1708154 | SHUBH KUMAR            | B.Tech CSE   | 4th | STAAD PRO       |
| 144 | 1708155 | SHUBHAM                | B.Tech CSE   | 4th | STAAD PRO       |
| 145 | 1708156 | SHUBHAM CHANDAL        | B.Tech CSE   | 4th | STAAD PRO       |
| 146 | 1708157 | SHUBHAM SHARMA         | B.Tech CSE   | 4th | STAAD PRO       |
| 147 | 1708158 | SOURAV SHARMA          | B.Tech CSE   | 4th | STAAD PRO       |
| 148 | 1708159 | SUKHWINDER KAUR        | B.Tech CSE   | 4th | STAAD PRO       |
| 149 | 1708160 | TAMNNA                 | B.Tech CSE   | 4th | STAAD PRO       |
| 150 | 1806951 | ANKIT KAUL             | B.Tech CSE   | 3rd | STAAD PRO       |
| 151 | 1806952 | ANOO KUMAR             | B.Tech CSE   | 3rd | STAAD PRO       |
| 152 | 1806953 | ARSHDEEP SINGH         | B.Tech CSE   | 3rd | STAAD PRO       |
| 153 | 1806955 | ATUL KUMAR             | B.Tech CSE   | 3rd | STAAD PRO       |
| 154 | 1806956 | BHARTI SHUKLE          | B.Tech CSE   | 3rd | STAAD PRO       |
| 155 | 1806957 | DALBIR SINGH           | B.Tech CSE   | 3rd | STAAD PRO       |
| 156 | 1806958 | DILBAG SINGH           | B.Tech CSE   | 3rd | STAAD PRO       |
| 157 | 1806959 | GURPREET KAUR          | B.Tech CSE   | 3rd | STAAD PRO       |
| 158 | 2005344 | GURSIMRAN KAUR         | M.TECH CSE   | 1ST | STAAD PRO       |
| 159 | 2005345 | MANDEEP KUMAR          | M.TECH CSE   | 1ST | STAAD PRO       |
| 160 | 2005346 | RIZWAN RASOOL          | M.TECH(CSE)  | 1ST | STAAD PRO       |
| 161 | 2005347 | SHARIQ BASHIR          | M.TECH(CSE)  | 1ST | STAAD PRO       |
| 162 | 1934521 | BHARTI SONI            | MCA          | 2nd | STAAD PRO       |
| 163 | 1934519 | DEEPANSHU<br>TANDOU    | MCA          | 2nd | STAAD PRO       |
| 164 | 1906462 | JATIN GAUTAM           | MCA          | 2nd | STAAD PRO       |
| 165 | 1906463 | JYOTI DEVI             | MCA          | 2nd | STAAD PRO       |
| 166 | 1708124 | KUNDAN KUMAR           | B.Tech ME    | 4th | WIND ENERGY     |
| 167 | 1807028 | BIKRAMJEET SINGH       | B.Tech ME    | 3rd | WIND ENERGY     |
| 168 | 1807029 | PARMINDER SINGH        | B.Tech ME    | 3rd | WIND ENERGY     |
| 169 | 1834626 | MOHAMMAD<br>ASLAM WANI | B.Tech ME    | 3rd | WIND ENERGY     |
| 170 | 1708068 | AAMIR NAZIR            | B.tech Civil | 4th | WIND ENERGY     |
| 171 | 1708070 | ADNAN QAYOOM           | B.tech Civil | 4th | WIND ENERGY     |
| 172 | 1708071 | AKSHAYAT KOIRALA       | B.tech Civil | 4th | WIND ENERGY     |
| 173 | 1708073 | DEEPAK KUMAR           | B.tech Civil | 4th | WIND ENERGY     |
| 174 | 1708075 | ELIZABETH KALYOTI      | B.tech Civil | 4th | WIND ENERGY     |
| 175 | 1708164 | AKSHIT JASWAL          | B.Tech EE    | 4th | WIND ENERGY     |
| 176 | 1708166 | GURPREET KAUR          | B.Tech EE    | 4th | WIND ENERGY     |
| 177 | 1708167 | MANVIR SINGH           | B.Tech EE    | 4th | WIND ENERGY     |
| 178 | 1708168 | RAHUL KUMAR            | B.Tech EE    | 4th | WIND ENERGY     |
| 179 | 1708169 | RAJAN BABU SAH         | B.Tech EE    | 4th | WIND ENERGY     |
| 180 | 1708170 | RAJAT KUMAR            | B.Tech EE    | 4th | WIND ENERGY     |
| 181 | 1708171 | SAHIL MINHAS           | B.Tech EE    | 4th | WIND ENERGY     |
| 182 | 1708172 | SUMESH KUMAR           | B.Tech EE    | 4th | WIND ENERGY     |
| 183 | 1806986 | LUMANO<br>MWELEMKA     | B.Tech EE    | 3rd | WIND ENERGY     |
| 184 | 1806987 | MANDEEP SINGH          | B.Tech EE    | 3rd | WIND ENERGY     |
| 185 | 1807009 | AKSHIT JOSHI           | B.Tech ME    | 3rd | WIND ENERGY     |

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## Academic Year 2020-21

### Activity organized Report

Date : 20-10-2020

|                               |                                                                                                                                                                                                                                                                                    |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                 |
| Title of Activity             | GIS                                                                                                                                                                                                                                                                                |
| Programme                     | ENGG/ARCH                                                                                                                                                                                                                                                                          |
| Date of Commencement          | 14-07-2020                                                                                                                                                                                                                                                                         |
| Date of Completion            | 20-10-2020                                                                                                                                                                                                                                                                         |
| Place of activity             | C BLOCK SEMINAR HALL                                                                                                                                                                                                                                                               |
| No of participants Enrolled   | 15                                                                                                                                                                                                                                                                                 |
| No of participants completed  | 13                                                                                                                                                                                                                                                                                 |
| Course Coordinator and Expert | GURPREET SINGH                                                                                                                                                                                                                                                                     |
| Summary of activity           | The value added course for the Odd Semester During the Academic Year 2020-21 was Successfully Organized .The Course On “GIS” was covered .It Was aimed at various course students to understand gis .A total of 15 students registered for the course and 13 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                    |

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ROPAR



## Geographic Information Systems

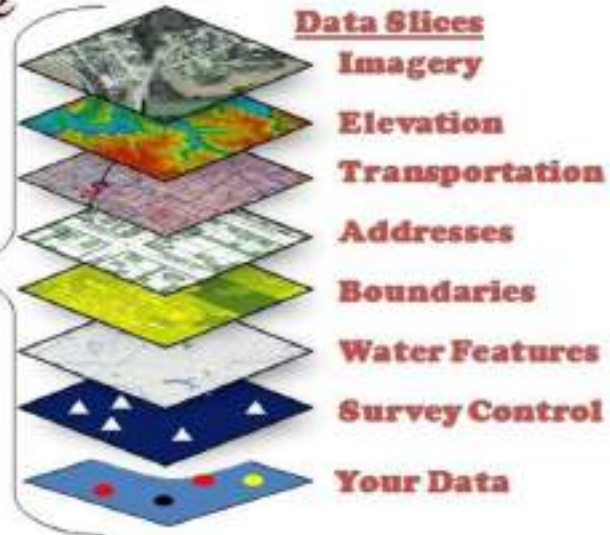
value added course

The Real World



Commencement  
from: -14/7/2020

GIS World Model



COORDINATOR:- GURPREET SINGH

Department of Architecture

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TECHNICAL  
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ROPAR

IET/DEPT Arch /111

Date: 14/7/2020

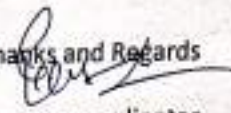
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**Permission For Conducting value added course and allocate faculty member for same**

It is to bring to your kind notice that following value added course is finalized For academic Year 2020-21-.The details of value added Course is as follow

| S.no | Name of Value Added Course | Class      | Contact Hrs | Date of Commencement | Expert         |
|------|----------------------------|------------|-------------|----------------------|----------------|
| 1    | GIS                        | CIVIL/ARCH | 30/45       | 14-07-2020           | GURPREET SINGH |
|      |                            |            |             |                      |                |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

Thanks and Regards  
  
Course co-ordinator

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IET/VAC/BA-CA/415

DATE 14/7/2020

## NOTICE

It is for the information of all students of - That BA-CA department is conducting value added course entitled -GIS from -14-07-2020. The Course is scheduled for -45 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

Course Coordinator:

Head of Department

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Head Of all Departments ( For Information)  
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ALL the notice boards





College of Arch  
2020-21

| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                    |                    |       |       |      |       |       |       |      |      |       |       |       |       |        |        |                    |
|------------------------------------------|--------------------|--------------------|-------|-------|------|-------|-------|-------|------|------|-------|-------|-------|-------|--------|--------|--------------------|
| Duration 3HR                             |                    | Name Of Course GIS |       |       |      |       |       |       |      |      |       |       |       |       |        |        |                    |
| S.no                                     | Name               | 14//7              | 21//7 | 28//7 | 4//8 | 11//8 | 18//8 | 25//8 | 1//9 | 8//9 | 15//9 | 22//9 | 29//9 | 6//10 | 13//10 | 20//10 | Total attendance % |
| 1                                        | ADITYA GUPTA       | 1                  | 2     | ab    | 3    | AB    | 4     | 5     | 6    | AB   | AB    | 7     | 8     | 9     | AB     | 10     | Aditya Gupta       |
| 2                                        | ANIT KUMAR         | AB                 | 1     | 2     | 3    | 4     | AB    | AB    | 5    | 6    | 7     | 8     | 9     | 10    | 11     | AB     | Anit Kumar         |
| 3                                        | ANJALI             | 1                  | AB    | 3     | AB   | 4     | 5     | 6     | AB   | 7    | 8     | AB    | 9     | AB    | 10     | 11     | Anjali             |
| 4                                        | HARJEEVAN KAUR     | 1                  | 2     | 3     | 4    | 5     | 6     | 7     | 8    | AB   | 9     | 10    | AB    | AB    | 11     | 12     | Harjeevan Kaur     |
| 5                                        | ISHA SHARMA        | 1                  | 2     | ab    | 3    | AB    | 4     | 5     | 6    | AB   | AB    | 7     | 8     | 9     | AB     | 10     | Isha               |
| 6                                        | MEHAK ARORA        | AB                 | 1     | 2     | 3    | 4     | AB    | AB    | 5    | 6    | 7     | 8     | 9     | 10    | 11     | AB     | Mehak              |
| 7                                        | NANDINI SINGH      | 1                  | AB    | 3     | AB   | 4     | 5     | 6     | AB   | 7    | 8     | AB    | 9     | AB    | 10     | 11     | Nandini Singh      |
| 8                                        | kismat kumar       | 1                  | 2     | 3     | 4    | 5     | 6     | 7     | 8    | AB   | 9     | 10    | AB    | AB    | 11     | 12     | Kismat             |
| 9                                        | MOHAMMAD AFJAL     | 1                  | AB    | 3     | AB   | 4     | 5     | 6     | AB   | 7    | 8     | AB    | 9     | AB    | 10     | 11     | Mohammad Afjal     |
| 10                                       | MWANAWINA MULAMBWA | 1                  | 2     | 3     | 4    | 5     | 6     | 7     | 8    | AB   | 9     | 10    | AB    | AB    | 11     | 12     | Mwanawina Mulambwa |
| 11                                       | nitin kumar        | 1                  | 2     | ab    | 3    | AB    | 4     | 5     | 6    | AB   | AB    | 7     | 8     | 9     | AB     | 10     | Nitin Kumar        |
| 12                                       | RAJAN MANDAL       | AB                 | 1     | 2     | 3    | 4     | AB    | AB    | 5    | 6    | 7     | 8     | 9     | 10    | 11     | AB     | Rajan Mandal       |
| 13                                       | SIMWANAZA ALLAN    | 1                  | 2     | ab    | 3    | AB    | 4     | 5     | 6    | AB   | AB    | 7     | 8     | 9     | AB     | 10     | Simwanaza Allan    |
| 14                                       | ZOLIANSANGI        | AB                 | 1     | 2     | 3    | 4     | AB    | AB    | 5    | 6    | 7     | 8     | 9     | 10    | 11     | AB     | Zoliangsangi       |
| 15                                       | Arjuman Rafiq      | 1                  | AB    | 3     | AB   | 4     | 5     | 6     | AB   | 7    | 8     | AB    | 9     | AB    | 10     | 11     | Arjuman Rafiq      |

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# **GEOGRAPHICAL INFORMATION SYSTEM**

## **COURSE OBJECTIVES (Co)**

- ☐ To introduce concept, principles and applications of Geographic Information Systems (GIS)
- ☐ To train students on using various remote sensing data types / formats
- ☐ To enable students to create maps, images and apps to communicate spatial data in a meaningful way to others
- ☐ To provide exposure to basic tools and techniques in GIS software

## **UNIT I**

Introduction, Course overview, what is GIS

Cartographic principles and conventions

## **UNIT II**

Spatial data properties and structure

Spatial data management, geodatabase basics

## **UNIT III**

GIS modeling and automation; web GIS and open source GIS

## **UNIT IV**

Introduction to Remote Sensing

Introduction to Global Positioning Systems

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2020-21**

| S.NO | ROLL NO | NAME               | BRANCH       | YEAR | VALUE ADDED COURSE              |
|------|---------|--------------------|--------------|------|---------------------------------|
| 1    | 1708052 | ADITYA GUPTA       | B.arch       | 4th  | GEOGRAPHICAL INFORMATION SYSTEM |
| 2    | 1708053 | ANIT KUMAR         | B.arch       | 4th  | GEOGRAPHICAL INFORMATION SYSTEM |
| 3    | 1708054 | ANJALI             | B.arch       | 4th  | GEOGRAPHICAL INFORMATION SYSTEM |
| 4    | 1708055 | HARJEEVAN KAUR     | B.arch       | 4th  | GEOGRAPHICAL INFORMATION SYSTEM |
| 5    | 1708056 | ISHA SHARMA        | B.arch       | 4th  | GEOGRAPHICAL INFORMATION SYSTEM |
| 6    | 1708058 | MEHAK ARORA        | B.arch       | 4th  | GEOGRAPHICAL INFORMATION SYSTEM |
| 7    | 1708059 | NANDINI SINGH      | B.arch       | 4th  | GEOGRAPHICAL INFORMATION SYSTEM |
| 8    | 1806933 | kismat kumar       | B.Tech Civil | 3rd  | GEOGRAPHICAL INFORMATION SYSTEM |
| 9    | 1806935 | MOHAMMAD AFJAL     | B.Tech Civil | 3rd  | GEOGRAPHICAL INFORMATION SYSTEM |
| 10   | 1806937 | MWANAWINA MULAMBWA | B.Tech Civil | 3rd  | GEOGRAPHICAL INFORMATION SYSTEM |
| 11   | 1806939 | nitin kumar        | B.Tech Civil | 3rd  | GEOGRAPHICAL INFORMATION SYSTEM |
| 12   | 1834617 | RAJAN MANDAL       | B.Tech Civil | 3rd  | GEOGRAPHICAL INFORMATION SYSTEM |
| 13   | 1806941 | SIMWANAZA          | B.Tech Civil | 3rd  | GEOGRAPHICAL                    |

|    |         |               |              |     |                                       |
|----|---------|---------------|--------------|-----|---------------------------------------|
|    |         | ALLAN         |              |     | INFORMATION<br>SYSTEM                 |
| 14 | 1806943 | ZOLIANSANGI   | B.Tech Civil | 3rd | GEOGRAPHICAL<br>INFORMATION<br>SYSTEM |
| 15 | 1834622 | Arjuman Rafiq | B.Tech Civil | 3rd | GEOGRAPHICAL<br>INFORMATION<br>SYSTEM |

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OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

Academic Year 2020-21

Activity organized Report

Date :03-11-2020

|                               |                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                                    |
| Title of Activity             | BIOLOGY OF ENGINEERS                                                                                                                                                                                                                                                                                                                  |
| Programme                     | ENGG                                                                                                                                                                                                                                                                                                                                  |
| Date of Commencement          | 28-7-2020                                                                                                                                                                                                                                                                                                                             |
| Date of Completion            | 03-11-2020                                                                                                                                                                                                                                                                                                                            |
| Place of activity             | C BLOCK SEMINAR HALL                                                                                                                                                                                                                                                                                                                  |
| No of participants Enrolled   | 18                                                                                                                                                                                                                                                                                                                                    |
| No of participants completed  | 15                                                                                                                                                                                                                                                                                                                                    |
| Course Coordinator and Expert | Swastiksharma                                                                                                                                                                                                                                                                                                                         |
| Summary of activity           | The value added course for the Odd Semester During the Academic Year 2020-21 was Successfully Organized .The Course On “ BIOLOGY OF ENGINEERS ” was covered .It Was aimed at various course students to understand importance of biology for engineers .A total of 18 students registered for the course and 15 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                                       |

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## Biology of Engineers



### Engineering Terms (From the Functional Basis)

Solid-Liquid  
Mixture Material

Mechanical  
Energy

Change

Stabilize

Control Signal

Chemical Energy

### Biological Terms

Protein

Contract

Mutate

Bind

Transduction

Glucose

value

added

course

Commencement  
from: -  
28/7/2020

Coordinator: Swastik Sharma

Department of Mechanical Engineering

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ROPAR

IET/DEPT-ME/129

Date: 28/7/2020

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Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2020-21-.The details of value added Course is as follow

| S.no | Name of Value Added Course | Class  | Contact Hrs | Date of Commencement | Expert        |
|------|----------------------------|--------|-------------|----------------------|---------------|
| 1    | BIOLOGY OF ENGINEERS       | B.TECH | 30/45       | 28-7-2020            | Swastiksharma |
|      |                            |        |             |                      |               |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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*Thanks and Regards*

Course co-ordinator

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Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)







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IET NAC/ME/221

DATE 28/7/2020

## NOTICE

It is for the information of all students of - That **ME** department is conducting value added course entitled -BIOLOGY OF ENGINEERS from -28-7-2020. The Course is scheduled for -30 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

Course co-ordinator:

Head of Department -

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Cc : principal ( For Kind information please)  
Head Of all Departments ( For Information)  
IOAC  
ALL the notice boards

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Dept of MB  
2020-21.

| DURATION 3HRS |                 | ATTENDANCE SHEET FOR VALUE ADDED COURSES |      |       |       |       |      |      |       |       |       |       |        |                       |        |       |                 |
|---------------|-----------------|------------------------------------------|------|-------|-------|-------|------|------|-------|-------|-------|-------|--------|-----------------------|--------|-------|-----------------|
|               |                 | Name Of Course BIOLOGY OF ENGINEERS      |      |       |       |       |      |      |       |       |       |       |        | Course Duration 45HRS |        |       |                 |
| S.no          | Name            | 28//7                                    | 4//8 | 11//8 | 18//8 | 25//8 | 1//9 | 8//9 | 15//9 | 22//9 | 29//9 | 6//10 | 13//10 | 20//10                | 27//10 | 3//11 | STRENGTH        |
| 1             | AMIT KUMAR      | 1                                        | 2    | ab    | 3     | AB    | 4    | 5    | 6     | AB    | AB    | 7     | 8      | 9                     | AB     | 10    | Amit Kumar      |
| 2             | BRAGAT SINGH    | AB                                       | 1    | 2     | 3     | 4     | AB   | AB   | 5     | 6     | 7     | 8     | 9      | 10                    | 11     | AB    | Bragat Singh    |
| 3             | CHIRAG SHARMA   | 1                                        | AB   | 3     | AB    | 4     | 5    | 6    | AB    | 7     | 8     | AB    | 9      | AB                    | 10     | 11    | Chirag Sharma   |
| 4             | HAPPY           | 1                                        | 2    | 3     | 4     | 5     | 6    | 7    | 8     | AB    | 9     | 10    | AB     | AB                    | 11     | 12    | Happy           |
| 5             | HARSHAJAN SINGH | 1                                        | 2    | ab    | 3     | AB    | 4    | 5    | 6     | AB    | AB    | 7     | 8      | 9                     | AB     | 10    | Harshajan Singh |
| 6             | NAVJIT SINGH    | AB                                       | 1    | 2     | 3     | 4     | AB   | AB   | 5     | 6     | 7     | 8     | 9      | 10                    | 11     | AB    | Navjit Singh    |
| 7             | NIKHIL SINGH    | 1                                        | AB   | 3     | AB    | 4     | 5    | 6    | AB    | 7     | 8     | AB    | 9      | AB                    | 10     | 11    | Nikhil Singh    |
| 8             | PAWAN KUMAR     | 1                                        | 2    | 3     | 4     | 5     | 6    | 7    | 8     | AB    | 9     | 10    | AB     | AB                    | 11     | 12    | Pawan Kumar     |
| 9             | SHIVAM GAUR     | 1                                        | AB   | 3     | AB    | 4     | 5    | 6    | AB    | 7     | 8     | AB    | 9      | AB                    | 10     | 11    | Shivam Gaur     |
| 10            | SURPREET SINGH  | 1                                        | 2    | 3     | 4     | 5     | 6    | 7    | 8     | AB    | 9     | 10    | AB     | AB                    | 11     | 12    | Surpreet Singh  |
| 11            | AKSHIT JOSHI    | 1                                        | 2    | ab    | 3     | AB    | 4    | 5    | 6     | AB    | AB    | 7     | 8      | 9                     | AB     | 10    | Akshat Joshi    |
| 12            | ANMOL SHARMA    | AB                                       | 1    | 2     | 3     | 4     | AB   | AB   | 5     | 6     | 7     | 8     | 9      | 10                    | 11     | AB    | Anmol Sharma    |
| 13            | ASHOK KUMAR     | 1                                        | 2    | ab    | 3     | AB    | 4    | 5    | 6     | AB    | AB    | 7     | 8      | 9                     | AB     | 10    | Ashok Kumar     |
| 14            | BALWINDER SINGH | AB                                       | 1    | 2     | 3     | 4     | AB   | AB   | 5     | 6     | 7     | 8     | 9      | 10                    | 11     | AB    | Balwinder Singh |
| 15            | GURCHANI TWARI  | 1                                        | AB   | 3     | AB    | 4     | 5    | 6    | AB    | 7     | 8     | AB    | 9      | AB                    | 10     | 11    | Gurchani Tware  |
| 16            | GURCHARAN       | 1                                        | 2    | 3     | 4     | 5     | 6    | 7    | 8     | AB    | 9     | 10    | AB     | AB                    | 11     | 12    | Gurcharan       |
| 17            | HANISH THAKUR   | 1                                        | 2    | ab    | 3     | AB    | 4    | 5    | 6     | AB    | AB    | 7     | 8      | 9                     | AB     | 10    | Hanish Thakur   |
| 18            | Manoj Sharma    | AB                                       | 1    | 2     | 3     | 4     | AB   | AB   | 5     | 6     | 7     | 8     | 9      | 10                    | 11     | AB    | Manoj Sharma    |

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# BIOLOGY FOR ENGINEERS

## Course objectives:

- ☐ To familiarize the students with the basic biological concepts and their engineering applications.
- ☐ To enable the students with an understanding of biodesign principles to create novel devices and structures.
- ☐ To provide the students an appreciation of how biological systems can be re-designed as substitute products for natural systems.
- ☐ To motivate the students develop the interdisciplinary vision of biological engineering.

## Teaching-Learning Process (General Instructions)

These are sample Strategies, which teacher can use to accelerate the attainment of the various course **outcomes**.

- ☐ Explanation via real life problem, situation modelling, and deliberation of solutions, hands-on sessions, reflective and questioning /inquiry-based teaching.
- ☐ Instructions with interactions in classroom lectures (physical/hybrid).
- ☐ Use of ICT tools, including YouTube videos, related MOOCs, AR/VR/MR tools.
- ☐ Flipped classroom sessions (~10% of the classes).
- ☐ Industrial visits, Guests talks and competitions for learning beyond the syllabus.
- ☐ Students' participation through audio-video based content creation for the syllabus (as assignments).
- ☐ Use of gamification tools (in both physical/hybrid classes) for creative learning outcomes.
- ☐ Students' seminars (in solo or group) /oral presentations.

## Module-1 (5 Hours)

### BIOMOLECULES AND THEIR APPLICATIONS (QUALITATIVE):

Carbohydrates (cellulose-based water filters, PHA and PLA as bioplastics), Nucleic acids (DNA Vaccine for Rabies and

RNA vaccines for Covid19, Forensics – DNA fingerprinting), Proteins (Proteins as food – whey protein and meat

analogs, Plant based proteins), lipids (biodiesel, cleaning agents/detergents), Enzymes (glucose-oxidase in biosensors,

lignolytic enzyme in bio-bleaching).

## Module-2 (5 Hours)

### HUMAN ORGAN SYSTEMS AND BIO DESIGNS - 1 (QUALITATIVE):

Brain as a CPU system (architecture, CNS and Peripheral Nervous System, signal transmission, EEG, Robotic arms for

prosthetics. Engineering solutions for Parkinson's disease). Eye as a Camera system (architecture of rod and cone cells,

optical corrections, cataract, lens materials, bionic eye).Heart as a pump system (architecture, electrical signalling - ECG monitoring and heart related issues, reasons for blockages of blood vessels, design of stents, pace makers, defibrillators).

Module-3 (5 Hours)

### **HUMAN ORGAN SYSTEMS AND BIO-DESIGNS - 2 (QUALITATIVE):**

Lungs as purification system (architecture, gas exchange mechanisms, spirometry, abnormal lung physiology - COPD,

Ventilators, Heart-lung machine).Kidney as a filtration system (architecture, mechanism of filtration, CKD, dialysis

systems). Muscular and Skeletal Systems as scaffolds (architecture, mechanisms, bioengineering solutions for muscular

dystrophy and osteoporosis).

Module-4 (5 Hours)

### **NATURE-BIOINSPIRED MATERIALS AND MECHANISMS (QUALITATIVE):**

Echolocation (ultrasonography, sonars), Photosynthesis (photovoltaic cells, bionic leaf). Bird flying (GPS and aircrafts),

Lotus leaf effect (Super hydrophobic and self-cleaning surfaces), Plant burrs (Velcro), Shark skin (Friction reducing swim

suits), Kingfisher beak (Bullet train). Human Blood substitutes - hemoglobin-based oxygen carriers (HBOCs) and

perfluorocarbons (PFCs).

Module-5 (5 Hours)

### **TRENDS IN BIOENGINEERING (QUALITATIVE):**

Bioprinting techniques and materials, 3D printing of ear, bone and skin. 3D printed foods.

Electrical tongue and electrical

nose in food science, DNA origami and Biocomputing, Bioimaging and Artificial Intelligence

for disease diagnosis. SelfhealingBioconcrete (based on bacillus spores, calcium lactate nutrients and biomineralization processes) and

Bioremediation and Biomining via microbial surface adsorption (removal of heavy metals like Lead, Cadmium, Mercu

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2020-21**

| S.NO | ROLL NO | NAME             | BRANCH    | YEAR | VALUE ADDED COURSE   |
|------|---------|------------------|-----------|------|----------------------|
| 1    | 1708193 | AMIT KUMAR       | B.Tech ME | 4TH  | BIOLOGY OF ENGINEERS |
| 2    | 1708195 | BHAGAT SINGH     | B.Tech ME | 4TH  | BIOLOGY OF ENGINEERS |
| 3    | 1708196 | CHIRAG SHARMA    | B.Tech ME | 4TH  | BIOLOGY OF ENGINEERS |
| 4    | 1708197 | HAPPY            | B.Tech ME | 4TH  | BIOLOGY OF ENGINEERS |
| 5    | 1708198 | HARBHAJAN SINGH  | B.Tech ME | 4TH  | BIOLOGY OF ENGINEERS |
| 6    | 1708202 | NAVJOT SINGH     | B.Tech ME | 4TH  | BIOLOGY OF ENGINEERS |
| 7    | 1708203 | NIKHIL SINGH     | B.Tech ME | 4TH  | BIOLOGY OF ENGINEERS |
| 8    | 1708207 | PAWAN KUMAR      | B.Tech ME | 4TH  | BIOLOGY OF ENGINEERS |
| 9    | 1708208 | SHIVAM GAUR      | B.Tech ME | 4TH  | BIOLOGY OF ENGINEERS |
| 10   | 1708209 | SUKHPREET SINGH  | B.Tech ME | 4TH  | BIOLOGY OF ENGINEERS |
| 11   | 1807009 | AKSHIT JOSHI     | B.Tech ME | 3RD  | BIOLOGY OF ENGINEERS |
| 12   | 1807010 | ANMOL SHARMA     | B.Tech ME | 3RD  | BIOLOGY OF ENGINEERS |
| 13   | 1807011 | ASHOOK KUMAR SAH | B.Tech ME | 3RD  | BIOLOGY OF ENGINEERS |
| 14   | 1807012 | BALWINDER SINGH  | B.Tech ME | 3RD  | BIOLOGY OF ENGINEERS |
| 15   | 1834619 | DURGESH TIWARI   | B.Tech ME | 3RD  | BIOLOGY OF ENGINEERS |
| 16   | 1807013 | GURCHARAN SINGH  | B.Tech ME | 3RD  | BIOLOGY OF ENGINEERS |
| 17   | 1834620 | HANISH THAKUR    | B.Tech ME | 3RD  | BIOLOGY OF ENGINEERS |
| 18   | 1834621 | Manoj Sharma     | B.Tech ME | 3RD  | BIOLOGY OF ENGINEERS |

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Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

**Academic Year 2020-21**

**Activity organized Report**

**Date : 19-10-2020**

|                                      |                                                                                                                                                                                                                                                                                                            |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name of activity</b>              | Value Added Course                                                                                                                                                                                                                                                                                         |
| <b>Title of Activity</b>             | BIG DATA ANALYSIS                                                                                                                                                                                                                                                                                          |
| <b>Programme</b>                     | ENGG,MCA,M.TECH                                                                                                                                                                                                                                                                                            |
| <b>Date of Commencement</b>          | 13-7-2020                                                                                                                                                                                                                                                                                                  |
| <b>Date of Completion</b>            | 19-10-2020                                                                                                                                                                                                                                                                                                 |
| <b>Place of activity</b>             | B221                                                                                                                                                                                                                                                                                                       |
| <b>No of participants Enrolled</b>   | 25                                                                                                                                                                                                                                                                                                         |
| <b>No of participants completed</b>  | 20                                                                                                                                                                                                                                                                                                         |
| <b>Course Coordinator and Expert</b> | BARINDERJIT KAUR                                                                                                                                                                                                                                                                                           |
| <b>Summary of activity</b>           | The value added course for the odd Semester During the Academic Year 2020-21 was Successfully Organized .The Course On “BIG DATA ANALYSIS ” was covered .It Was aimed at various course students to understand role of data .A total of 25 students registered for the course and 20 completed the Course. |
|                                      |                                                                                                                                                                                                                                                                                                            |

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## Big Data Analysis

### Value Added Course

#### Applications of Big Data Analytics



Commencement from: - 28/7/2020

Coordinator: - Barinderjit Kaur

Organised by:-  
Department of  
MCA  
Bhaddal







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IET/DEPT-CSE/197

Date : 13/7/2020

PRINCIPAL  
IET BHADDAL  
ROPAR

Permission For Conducting value added course and allocate faculty member for same

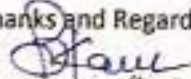
It is to bring to your kind notice that following value added course is finalized For academic Year 2020-21. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class          | Contact Hrs | Date of Commencement | Expert           |
|------|----------------------------|----------------|-------------|----------------------|------------------|
| 1    | BIG DATA ANALYSIS          | CSE,MCA,M.TECH | 30/45       | 13-7-2020            | BARINDERJIT KAUR |
|      |                            |                |             |                      |                  |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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Thanks and Regards  
  
Course co-ordinator

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)







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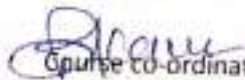
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IET/NAC/CSE/III

DATE 13/7/2020

## NOTICE

It is for the information of all students of - That CSE department is conducting value added course entitled from BIG DATA ANALYSIS -13/7/2020. The Course is scheduled for -30 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

  
Head of Department

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Cc : principal ( For Kind information please)  
Head Of all Departments ( For Information)  
IQAC  
ALL the notice boards

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Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)



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Dept of CSP  
2020-21

| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                     |       |                                  |       |      |       |       |       |       |      |       |       |                       |       |        |        |                |
|------------------------------------------|---------------------|-------|----------------------------------|-------|------|-------|-------|-------|-------|------|-------|-------|-----------------------|-------|--------|--------|----------------|
| DURATION 3HR/WEEK                        |                     |       | Name Of Course BIG DATA ANALYSIS |       |      |       |       |       |       |      |       |       | Course Duration 45HRS |       |        |        |                |
| S.no                                     | Name                | 13//7 | 20//7                            | 27//7 | 3//8 | 10//8 | 17//8 | 24//8 | 31//8 | 7//9 | 14//9 | 21//9 | 28//9                 | 5//10 | 12//10 | 19//10 | SIGNATURE      |
| 1                                        | BHARTI SONI         | 1     | 2                                | ab    | 3    | AB    | 4     | 5     | 6     | AB   | AB    | 7     | 8                     | 9     | AB     | 10     | Bharti Soni    |
| 2                                        | DEEPANSHU           | AB    | 1                                | 2     | 3    | 4     | AB    | AB    | 5     | 6    | 7     | 8     | 9                     | 10    | 11     | AB     | Deepanshu      |
| 3                                        | JATIN GAUTAM        | 1     | AB                               | 3     | AB   | 4     | 5     | 6     | AB    | 7    | 8     | AB    | 9                     | AB    | 10     | 11     | Jatin Gautam   |
| 4                                        | JYOTI DEVI          | 1     | 2                                | 3     | 4    | 5     | 6     | 7     | 8     | AB   | 9     | 10    | AB                    | AB    | 11     | 12     | Jyoti Devi     |
| 5                                        | KIRANDEEP Kaur      | 1     | 2                                | ab    | 3    | AB    | 4     | 5     | 6     | AB   | AB    | 7     | 8                     | 9     | AB     | 10     | Kirandeep      |
| 6                                        | KIRANPREET Kaur     | AB    | 1                                | 2     | 3    | 4     | AB    | AB    | 5     | 6    | 7     | 8     | 9                     | 10    | 11     | AB     | Kiranpreet     |
| 7                                        | MANPREET Kaur       | 1     | AB                               | 3     | AB   | 4     | 5     | 6     | AB    | 7    | 8     | AB    | 9                     | AB    | 10     | 11     | Manpreet       |
| 8                                        | RAJNISH Kaur        | 1     | 2                                | 3     | 4    | 5     | 6     | 7     | 8     | AB   | 9     | 10    | AB                    | AB    | 11     | 12     | Rajnish Kaur   |
| 9                                        | RAMANPREET Kaur     | 1     | AB                               | 3     | AB   | 4     | 5     | 6     | AB    | 7    | 8     | AB    | 9                     | AB    | 10     | 11     | Ramanpreet K.  |
| 10                                       | RAVINDER Kaur       | 1     | 2                                | 3     | 4    | 5     | 6     | 7     | 8     | AB   | 9     | 10    | AB                    | AB    | 11     | 12     | R. Kaur        |
| 11                                       | GURSIMRAN Kaur      | 1     | 2                                | ab    | 3    | AB    | 4     | 5     | 6     | AB   | AB    | 7     | 8                     | 9     | AB     | 10     | GurSimran Kaur |
| 12                                       | MANDEEP KUMAR       | AB    | 1                                | 2     | 3    | 4     | AB    | AB    | 5     | 6    | 7     | 8     | 9                     | 10    | 11     | AB     | Mandeep        |
| 13                                       | RIZWAN RASOOL       | 1     | 2                                | ab    | 3    | AB    | 4     | 5     | 6     | AB   | AB    | 7     | 8                     | 9     | AB     | 10     | Rizwan         |
| 14                                       | SHARIQ BASHIR       | AB    | 1                                | 2     | 3    | 4     | AB    | AB    | 5     | 6    | 7     | 8     | 9                     | 10    | 11     | AB     | S. Bashir      |
| 15                                       | JAGDEEP Kaur        | 1     | AB                               | 3     | AB   | 4     | 5     | 6     | AB    | 7    | 8     | AB    | 9                     | AB    | 10     | 11     | Jagdeep        |
| 16                                       | KIRAN               | 1     | 2                                | 3     | 4    | 5     | 6     | 7     | 8     | AB   | 9     | 10    | AB                    | AB    | 11     | 12     | Kiran          |
| 17                                       | KULVEER SINGH       | 1     | 2                                | ab    | 3    | AB    | 4     | 5     | 6     | AB   | AB    | 7     | 8                     | 9     | AB     | 10     | Kulveer Singh  |
| 18                                       | KUSHAL BHALWAL      | AB    | 1                                | 2     | 3    | 4     | AB    | AB    | 5     | 6    | 7     | 8     | 9                     | 10    | 11     | AB     | Kushal         |
| 19                                       | MANISHA DEVI        | 1     | AB                               | 3     | AB   | 4     | 5     | 6     | AB    | 7    | 8     | AB    | 9                     | AB    | 10     | 11     | Manisha        |
| 20                                       | PRINCEDEEP SINGH    | 1     | 2                                | 3     | 4    | 5     | 6     | 7     | 8     | AB   | 9     | 10    | AB                    | AB    | 11     | 12     | Prince Deep    |
| 21                                       | SHEIKH UMMAR SAROOQ | 1     | 2                                | ab    | 3    | AB    | 4     | 5     | 6     | AB   | AB    | 7     | 8                     | 9     | AB     | 10     | Sheikh Umar    |
| 22                                       | TENZIN TASHI        | AB    | 1                                | 2     | 3    | 4     | AB    | AB    | 5     | 6    | 7     | 8     | 9                     | 10    | 11     | AB     | Tenzin Tashi   |
| 23                                       | ZOSANGZUALI PANAI   | 1     | AB                               | 3     | AB   | 4     | 5     | 6     | AB    | 7    | 8     | AB    | 9                     | AB    | 10     | 11     | Zosangzuali    |
| 24                                       | NATESH KUMAR        | 1     | 2                                | 3     | 4    | 5     | 6     | 7     | 8     | AB   | 9     | 10    | AB                    | AB    | 11     | 12     | Natesh         |
| 25                                       | ROHAN GILL          | 1     | 2                                | ab    | 3    | AB    | 4     | 5     | 6     | AB   | AB    | 7     | 8                     | 9     | AB     | 10     | Rohan Gill     |

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# BIG DATA ANALYTICS

## Course Objective:

To impart knowledge on

- To impart knowledge on
- Basics of various mining data techniques needed for processing
- The utilization of various tools based on the application
- Implement best practices for Hadoop development
- Analytics using Hive, Pig, Hbase etc..

## Course Outcome:

At the end of the course, the students will be able to

- Upon completion of the course students will be able to
- Work with various tools and algorithms for big data analytics
- Apply appropriate machine learning techniques and tools to solve big data problems

## Unit I

### DATA MINING BASICS

Data Cleaning – Reduction - Discretization - Association Rule Mining – Classification Techniques – Clustering Techniques

## Unit II

### BIG DATA ANALYTICS

Big data overview – practice in analytics – data scientist – Data Analytics Lifecycle - Discovery – Data preparation – model planning – model building – Tools - Risks

## Unit III

### DATA ANALYTICS METHODS USING R AND WEKA

Introduction to R and Weka – Analyze – Explore data – Statistics for model building and evaluation – Text Analytics – Web intelligence

## Unit IV

### HADOOP

Analytics for unstructured data – Hadoop Architecture – Components – HDFS – Data read and write - Map reduce Programming – Setting up Hadoop cluster

## Unit V

### HADOOP INTEGRATION TOOLS

Hadoop Ecosystem – Hbase – Connections - ZooKeeper – Hive – Hive Services – Querying with Hive – Pig – Data Processing Operators

## Practical Course

40

## Extensive Reading:

1. <http://www-01.ibm.com/software/data/infosphere/hadoop/what-is-big-data-analytics.html>
2. [https://education.emc.com/guest/campaign/data\\_science.aspx](https://education.emc.com/guest/campaign/data_science.aspx)
3. <https://www.thoughtworks.com/big-data-analytics>
4. <http://birtanalytics.actuate.com/what-is-big-data-analytics>

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2020-21**

| S.NO | ROLL NO | NAME             | BRANCH     | YEAR | VALUE ADDED COURSE |
|------|---------|------------------|------------|------|--------------------|
| 1    | 1934521 | BHARTI SONI      | MCA        | 2nd  | BIG DATA ANALYSIS  |
| 2    | 1934519 | DEEPANSHU TANDOU | MCA        | 2nd  | BIG DATA ANALYSIS  |
| 3    | 1906462 | JATIN GAUTAM     | MCA        | 2nd  | BIG DATA ANALYSIS  |
| 4    | 1906463 | JYOTI DEVI       | MCA        | 2nd  | BIG DATA ANALYSIS  |
| 5    | 1906464 | KIRANDEEP KAUR   | MCA        | 2nd  | BIG DATA ANALYSIS  |
| 6    | 1906465 | KIRANPREET KAUR  | MCA        | 2nd  | BIG DATA ANALYSIS  |
| 7    | 1906466 | MANPREET KAUR    | MCA        | 2nd  | BIG DATA ANALYSIS  |
| 8    | 1906469 | RAJNISH KAUR     | MCA        | 2nd  | BIG DATA ANALYSIS  |
| 9    | 1906470 | RAMANPREET KAUR  | MCA        | 2nd  | BIG DATA ANALYSIS  |
| 10   | 1906471 | RAVINDER KAUR    | MCA        | 2nd  | BIG DATA ANALYSIS  |
| 11   | 2005344 | GURSIMRAN KAUR   | M.Tech     | 1st  | BIG DATA ANALYSIS  |
| 12   | 2005345 | MANDEEP KUMAR    | M.Tech     | 1st  | BIG DATA ANALYSIS  |
| 13   | 2005346 | RIZWAN RASOOL    | M.Tech     | 1st  | BIG DATA ANALYSIS  |
| 14   | 2005347 | SHARIQ BASHIR    | M.Tech     | 1st  | BIG DATA ANALYSIS  |
| 15   | 1906407 | JAGDEEP KAUR     | B.Tech CSE | 2nd  | BIG DATA ANALYSIS  |
| 16   | 1906410 | KIRAN            | B.Tech CSE | 2nd  | BIG DATA ANALYSIS  |
| 17   | 1906411 | KULVEER SINGH    | B.Tech CSE | 2nd  | BIG DATA ANALYSIS  |
| 18   | 1906412 | KUSHAL BHALWAL   | B.Tech CSE | 2nd  | BIG DATA ANALYSIS  |
| 19   | 1906413 | MANISHA DEVI     | B.Tech CSE | 2nd  | BIG DATA ANALYSIS  |
| 20   | 1906414 | PRINCEDEEP SINGH | B.Tech CSE | 2nd  | BIG DATA ANALYSIS  |
| 21   | 1906416 | SHEIKH UMMAR     | B.Tech CSE | 2nd  | BIG DATA           |

|    |         |                      |            |     |                      |
|----|---------|----------------------|------------|-----|----------------------|
|    |         | SAROOQ               |            |     | ANALYSIS             |
| 22 | 1906418 | TENZIN TASHI         | B.Tech CSE | 2nd | BIG DATA<br>ANALYSIS |
| 23 | 1906421 | ZOSANGZUALI<br>FANAI | B.Tech CSE | 2nd | BIG DATA<br>ANALYSIS |
| 24 | 2005339 | NATESH KUMAR         | B.Tech CSE | 2nd | BIG DATA<br>ANALYSIS |
| 25 | 2005340 | ROHAN GILL           | B.Tech CSE | 2nd | BIG DATA<br>ANALYSIS |

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# IETBHADDAL

TECHNICAL  
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OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

## Academic Year 2020-21

### Activity organized Report

Date : 27-10-2020

|                               |                                                                                                                                                                                                                                                                                              |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                           |
| Title of Activity             | SELF MANAGEMENT                                                                                                                                                                                                                                                                              |
| Programme                     | ENGG,MCA,ARCH,MBA                                                                                                                                                                                                                                                                            |
| Date of Commencement          | 21-07-2020                                                                                                                                                                                                                                                                                   |
| Date of Completion            | 27-10-2020                                                                                                                                                                                                                                                                                   |
| Place of activity             | C BLOCK SEMINAR HALL                                                                                                                                                                                                                                                                         |
| No of participants Enrolled   | 18                                                                                                                                                                                                                                                                                           |
| No of participants completed  | 15                                                                                                                                                                                                                                                                                           |
| Course Coordinator and Expert | AMAN BANSAL                                                                                                                                                                                                                                                                                  |
| Summary of activity           | The value added course for the odd Semester During the Academic Year 2020-21 was Successfully Organized .The Course On “SELF MANAGEMENT” was covered .It Was aimed at various course students to write report .A total of 18 students registered for the course and 15 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                              |

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## Self Management value added course



commencement from:- 21/7/2020

Coordinator:- Aman Bansal

Department of Mechanical Engineering

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# IET BHADDAL

## TECHNICAL CAMPUS ROPAR

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IET/DEPT-ME/115

Date: 21/7/2020

PRINCIPAL  
IET BHADDAL  
ROPAR

**Permission For Conducting value added course and allocate faculty member for same**

It is to bring to your kind notice that following value added course is finalized For academic Year 2020-21-.The details of value added Course is as follow

| S.no | Name of Value Added Course | Class         | Contact Hrs | Date of Commencement | Expert      |
|------|----------------------------|---------------|-------------|----------------------|-------------|
| 1    | SELF MANAGEMENT            | BTECH/MBA/MCA | 30/45       | 21-07-2020           | AMAN BANSAL |
|      |                            |               |             |                      |             |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

*Aman Bansal*  
Course co-ordinator

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)



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# IET BHADDAL

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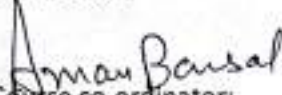
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UGC approved (2f & 12B) | Affiliated to IKG-PTU (Jalandhar)

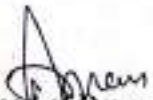
IET / VAC / MB / 211

DATE 21/7/2020

## NOTICE

It is for the information of all students of - That department is conducting value added course entitled -SELF MANAGEMENT from -21-07-2020. The Course is scheduled for -45 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

  
Head of Department

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Head Of all Departments ( For information)  
IQAC  
ALL the notice boards



Dept of MB  
2020-21.

| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                       |                                |       |      |       |       |       |      |      |       |       |       |       |                       |        |        |                   |
|------------------------------------------|-----------------------|--------------------------------|-------|------|-------|-------|-------|------|------|-------|-------|-------|-------|-----------------------|--------|--------|-------------------|
| DURATION 3HR                             |                       | Name Of Course SELF MANAGEMENT |       |      |       |       |       |      |      |       |       |       |       | Course Duration 45hrs |        |        |                   |
| S.no                                     | Name                  | 21//7                          | 28//7 | 4//8 | 11//8 | 18//8 | 25//8 | 1//9 | 8//9 | 15//9 | 22//9 | 29//9 | 6//10 | 13//10                | 20//10 | 27//10 | SIGNATURE         |
| 1                                        | MANVIR KAUR           | 1                              | 2     | ab   | 3     | AB    | 4     | 5    | 6    | AB    | AB    | 7     | 8     | 9                     | AB     | 10     | Manvir Kaur       |
| 2                                        | SARBJIT KAUR          | AB                             | 1     | 2    | 3     | 4     | AB    | AB   | 5    | 6     | 7     | 8     | 9     | 10                    | 11     | AB     | Sarbjit Kaur      |
| 3                                        | SIMRANPREET KAUR      | 1                              | AB    | 3    | AB    | 4     | 5     | 6    | AB   | 7     | 8     | AB    | 9     | AB                    | 10     | 11     | Simranpreet Kaur  |
| 4                                        | AAMIR AHMAD KAMKA     | 1                              | 2     | 3    | 4     | 5     | 6     | 7    | 8    | AB    | 9     | 10    | AB    | AB                    | 11     | 12     | Aamir Ahmad Kamka |
| 5                                        | AMANDEEP KAUR         | 1                              | 2     | ab   | 3     | AB    | 4     | 5    | 6    | AB    | AB    | 7     | 8     | 9                     | AB     | 10     | Amandeep Kaur     |
| 6                                        | ABHISHEK PRASAD       | AB                             | 1     | 2    | 3     | 4     | AB    | AB   | 5    | 6     | 7     | 8     | 9     | 10                    | 11     | AB     | Abhishek Prasad   |
| 7                                        | KARAM GURPARTAP SINGH | 1                              | AB    | 3    | AB    | 4     | 5     | 6    | AB   | 7     | 8     | AB    | 9     | AB                    | 10     | 11     | Karam Singh       |
| 8                                        | RAJAT                 | 1                              | 2     | 3    | 4     | 5     | 6     | 7    | 8    | AB    | 9     | 10    | AB    | AB                    | 11     | 12     | Rajat             |
| 9                                        | SAHIL                 | 1                              | AB    | 3    | AB    | 4     | 5     | 6    | AB   | 7     | 8     | AB    | 9     | AB                    | 10     | 11     | Sahil             |
| 10                                       | SHREYA JAIN           | 1                              | 2     | 3    | 4     | 5     | 6     | 7    | 8    | AB    | 9     | 10    | AB    | AB                    | 11     | 12     | Shreya Jain       |
| 11                                       | SIMRANJIT KAUR        | 1                              | 2     | ab   | 3     | AB    | 4     | 5    | 6    | AB    | AB    | 7     | 8     | 9                     | AB     | 10     | Simranjit Kaur    |
| 12                                       | Sourav K              | AB                             | 1     | 2    | 3     | 4     | AB    | AB   | 5    | 6     | 7     | 8     | 9     | 10                    | 11     | AB     | Sourav K          |
| 13                                       | SUMEGHA SHARMA        | 1                              | 2     | ab   | 3     | AB    | 4     | 5    | 6    | AB    | AB    | 7     | 8     | 9                     | AB     | 10     | Sumegha Sharma    |
| 14                                       | GOPAL SHARMA          | AB                             | 1     | 2    | 3     | 4     | AB    | AB   | 5    | 6     | 7     | 8     | 9     | 10                    | 11     | AB     | Gopal Sharma      |
| 15                                       | JAGMOHAN SINGH        | 1                              | AB    | 3    | AB    | 4     | 5     | 6    | AB   | 7     | 8     | AB    | 9     | AB                    | 10     | 11     | Jagmohan Singh    |
| 16                                       | KESHAV                | 1                              | 2     | 3    | 4     | 5     | 6     | 7    | 8    | AB    | 9     | 10    | AB    | AB                    | 11     | 12     | Keshav            |
| 17                                       | LUMANO MWELEMKA       | 1                              | 2     | ab   | 3     | AB    | 4     | 5    | 6    | AB    | AB    | 7     | 8     | 9                     | AB     | 10     | Lumano Mwelemka   |
| 18                                       | MANDEEP SINGH         | AB                             | 1     | 2    | 3     | 4     | AB    | AB   | 5    | 6     | 7     | 8     | 9     | 10                    | 11     | AB     | Mandeep Singh     |

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## : SELF MANAGEMENT

### Course Objectives:

- This course gives students an understanding of the concepts and tools needed for understanding and working on the “Self”.
- It is useful for harnessing the immense powers hidden “with in” the self and these are the secret tools for self change.
- The powers again emerge in the self as it withdraws from body consciousness activity and attitudes.

### Module I: Understanding the Self

- M.I.S Anatomy of the self-The mind-The intellect
- The sub-conscious mind-Consciousness- The cyclic process with in the self
- States of awareness-Innate
- Acquired qualities of the self- Powers to act.

### Module II: Process of thinking

- Thinking process-Developing thought pattern
- Transforming thought pattern-External influences on thoughts
- The power and effects of thoughts
- Principles of positive thinking-Benefits of positive thinking
- Methods to change thinking-Steps to change cycle of thinking.

### Module III: Powers of the self Power to withdraw

- Power to pack up and let go- Power to love or tolerate
- Power to accommodate- Power to discriminate
- Power to decide-Power to face-Power to co-operate
- Pro activities of powers-Interactivities of powers.

### Module IV: Managing interferences

- Perceptual Challenges-Attitudinal Challenges
- Experience Challenges-Habituation Challenges
- Mental positioning-Mental limits-Mental assumptions
- Associated memories.

### Module V: Development of life skills & Relationship Management

- Communication skills-Body language-Verbal and Non-verbal
- Team building -Purpose of living-Time managing skills-Time wasters and time killers
- 3Qs-conflict management.

### Relationship Management Significance

- Levels of relationships-harmony in relations
- Role of self esteem-Factors affecting relationships
- Relationships with family, Friends and colleagues
- Relationship with nature and environment-Relationship with the supreme

### Text Book:

- Brahma Kumaris, The Spiritual powers of the soul, Literature department, 1998 Brahma KumarisIshwariya VishwaVidyalaya, PandavBhawan, Mount Abu, Rajasthan
- B.K.ChandraShekhar, “Science of Mind Simplified”,Diamond Pocket Books(p) Ltd, New Delhi 110 020,2010

### **References:**

- BK. Jayanti, “The Art of Thinking”, Brahma Kumaris World Spiritual University, London NW 10 2HH
- Brahma Kumaris, “Inner Beauty”, Literature department, Brahma KumarisIshwariyaVishwaVidyalaya, PandavBhawan Mount abu,Rajasthan,2000
- Brahma Kumaris, “NEW BEGINNINGS”, Literature department, Brahma KumarisIshwariyaVishwaVidyalaya, PandavBhawan Mount abu,Rajasthan,1996

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2020-21**

| S.NO | ROLL NO | NAME                  | BRANCH    | YEAR | VALUE ADDED COURSE |
|------|---------|-----------------------|-----------|------|--------------------|
| 1    | 2005321 | MANVIR KAUR           | MBA       | 1ST  | SELF MANAGEMENT    |
| 2    | 2005326 | SARBJIT KAUR          | MBA       | 1ST  | SELF MANAGEMENT    |
| 3    | 2005329 | SIMRANPREET KAUR      | MBA       | 1ST  | SELF MANAGEMENT    |
| 4    | 1934537 | AAMIR AHMAD KAMKAR    | MBA       | 2nd  | SELF MANAGEMENT    |
| 5    | 1906424 | AMANDEEP KAUR         | MBA       | 2nd  | SELF MANAGEMENT    |
| 6    | 1806917 | ABHISHEK PRASAD       | B.arch    | 3rd  | SELF MANAGEMENT    |
| 7    | 1806918 | KARAM GURPARTAP SINGH | B.arch    | 3rd  | SELF MANAGEMENT    |
| 8    | 1806919 | RAJAT                 | B.arch    | 3rd  | SELF MANAGEMENT    |
| 9    | 1806920 | SAHIL                 | B.arch    | 3rd  | SELF MANAGEMENT    |
| 10   | 1806922 | SHREYA JAIN           | B.arch    | 3rd  | SELF MANAGEMENT    |
| 11   | 1806923 | SIMRANJIT KAUR        | B.arch    | 3rd  | SELF MANAGEMENT    |
| 12   | 1806924 | Sourav K              | B.arch    | 3rd  | SELF MANAGEMENT    |
| 13   | 1806925 | SUMEGHA SHARMA        | B.arch    | 3rd  | SELF MANAGEMENT    |
| 14   | 1806983 | GOPAL SHARMA          | B.Tech EE | 3rd  | SELF MANAGEMENT    |
| 15   | 1806984 | JAGMOHAN SINGH        | B.Tech EE | 3rd  | SELF MANAGEMENT    |
| 16   | 1806985 | KESHAV                | B.Tech EE | 3rd  | SELF MANAGEMENT    |
| 17   | 1806986 | LUMANO MWELEMKA       | B.Tech EE | 3rd  | SELF MANAGEMENT    |
| 18   | 1806987 | MANDEEP SINGH         | B.Tech EE | 3rd  | SELF MANAGEMENT    |



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# IETBHADDAL

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OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

## Academic Year 2020-21

### Activity organized Report

Date : 06-11-2020

|                               |                                                                                                                                                                                                                                                                                                      |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                   |
| Title of Activity             | STAAD PRO                                                                                                                                                                                                                                                                                            |
| Programme                     | ENGG,MCA,M.TECH                                                                                                                                                                                                                                                                                      |
| Date of Commencement          | 28-07-2020                                                                                                                                                                                                                                                                                           |
| Date of Completion            | 06-11-2020                                                                                                                                                                                                                                                                                           |
| Place of activity             | B220                                                                                                                                                                                                                                                                                                 |
| No of participants Enrolled   | 25                                                                                                                                                                                                                                                                                                   |
| No of participants completed  | 21                                                                                                                                                                                                                                                                                                   |
| Course Coordinator and Expert | BARINDERJIT KAUR                                                                                                                                                                                                                                                                                     |
| Summary of activity           | The value added course for the ODD Semester During the Academic Year 2020-21 was Successfully Organized .The Course On “STAAD PRO” was covered .It Was aimed at various course students to get knowledge of staad pro .A total of 25 students registered for the course and 21 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                      |

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# STAAD PRO



*value  
added  
course*

*Commencement from:- 28/7/2020  
Department of MBA*

*Coordinator:-  
Barinderjit  
Kaur*

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IET/DEPT-CSE/0111

Date: 28/7/2020

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**Permission For Conducting value added course and allocate faculty member for same**

It is to bring to your kind notice that following value added course is finalized For academic Year 2020-21-.The details of value added Course is as follow

| S.no | Name of Value Added Course | Class          | Contact Hrs | Date of Commencement | Expert           |
|------|----------------------------|----------------|-------------|----------------------|------------------|
| 1    | STAAD PRO                  | CSE,MCA,M.TECH | 30/45       | 28-07-2020           | BARINDERJIT KAUR |
|      |                            |                |             |                      |                  |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

*[Signature]*  
Course co-ordinator

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)







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LET/NAC/CSE/019

DATE 28/7/2020

## NOTICE

It is for the information of all students of - That department is conducting value added course entitled - STAAD PRO from -28-07-2020. The Course is scheduled for -45 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course coordinator:

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Head of Department

Cc : principal ( For Kind information please)  
Head Of all Departments ( For Information)  
IQAC  
ALL the notice boards



Dept of CSE 2020-21

| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                  |                          |      |       |       |       |      |       |       |       |       |       |        |        |        |       |               |
|------------------------------------------|------------------|--------------------------|------|-------|-------|-------|------|-------|-------|-------|-------|-------|--------|--------|--------|-------|---------------|
| DURATION 3HR                             |                  | Name Of Course STAAD PRO |      |       |       |       |      |       |       |       |       |       |        |        |        |       |               |
| S.no                                     | Name             | 28//7                    | 4//8 | 11//8 | 18//8 | 25//8 | 4//9 | 11//9 | 18//9 | 25//9 | 2//10 | 9//10 | 16//10 | 23//10 | 30//10 | 6//11 | SIGNATURE     |
| 1                                        | SHARNTH THAKUR   | 1                        | 2    | ab    | 3     | AB    | 4    | 5     | 6     | AB    | AB    | 7     | 8      | 9      | AB     | 10    | Sharnth Tha   |
| 2                                        | SHIVBAM KUMAR    | AB                       | 1    | 2     | 3     | 4     | AB   | AB    | 5     | 6     | 7     | 8     | 9      | 10     | 11     | AB    | Shivbam K     |
| 3                                        | SHUBH KUMAR      | 1                        | AB   | 3     | AB    | 4     | 5    | 6     | AB    | 7     | 8     | AB    | 9      | AB     | 10     | 11    | Shubh Kumar   |
| 4                                        | SHUBHAM          | 1                        | 2    | 3     | 4     | 5     | 6    | 7     | 8     | AB    | 9     | 10    | AB     | AB     | 11     | 12    | Shubh K       |
| 5                                        | SHUBHAM CHANDAL  | 1                        | 2    | ab    | 3     | AB    | 4    | 5     | 6     | AB    | AB    | 7     | 8      | 9      | AB     | 10    | Shubham C     |
| 6                                        | SHUBHAM SHARMA   | AB                       | 1    | 2     | 3     | 4     | AB   | AB    | 5     | 6     | 7     | 8     | 9      | 10     | 11     | AB    | Shubham S     |
| 7                                        | SOURAV SHARMA    | 1                        | AB   | 3     | AB    | 4     | 5    | 6     | AB    | 7     | 8     | AB    | 9      | AB     | 10     | 11    | Sourav Sharma |
| 8                                        | SUKHWINDER KAUR  | 1                        | 2    | 3     | 4     | 5     | 6    | 7     | 8     | AB    | 9     | 10    | AB     | AB     | 11     | 12    | Sukhwinder K  |
| 9                                        | TAMNNA           | 1                        | AB   | 3     | AB    | 4     | 5    | 6     | AB    | 7     | 8     | AB    | 9      | AB     | 10     | 11    | Tamnna        |
| 10                                       | ANKIT KAUL       | 1                        | 2    | 3     | 4     | 5     | 6    | 7     | 8     | AB    | 9     | 10    | AB     | AB     | 11     | 12    | Ankit Kaul    |
| 11                                       | ANOOP KUMAR      | 1                        | 2    | ab    | 3     | AB    | 4    | 5     | 6     | AB    | AB    | 7     | 8      | 9      | AB     | 10    | Anoop K       |
| 12                                       | ARSHDEEP SINGH   | AB                       | 1    | 2     | 3     | 4     | AB   | AB    | 5     | 6     | 7     | 8     | 9      | 10     | 11     | AB    | Arshdeep S    |
| 13                                       | ATUL KUMAR       | 1                        | 2    | ab    | 3     | AB    | 4    | 5     | 6     | AB    | AB    | 7     | 8      | 9      | AB     | 10    | Atul K        |
| 14                                       | BHARTI SHUKLE    | AB                       | 1    | 2     | 3     | 4     | AB   | AB    | 5     | 6     | 7     | 8     | 9      | 10     | 11     | AB    | Bharti Shukle |
| 15                                       | DALBIR SINGH     | 1                        | AB   | 3     | AB    | 4     | 5    | 6     | AB    | 7     | 8     | AB    | 9      | AB     | 10     | 11    | Dalbir Singh  |
| 16                                       | DILBAG SINGH     | 1                        | 2    | 3     | 4     | 5     | 6    | 7     | 8     | AB    | 9     | 10    | AB     | AB     | 11     | 12    | Dilbag Singh  |
| 17                                       | GURPREET KAUR    | 1                        | 2    | ab    | 3     | AB    | 4    | 5     | 6     | AB    | AB    | 7     | 8      | 9      | AB     | 10    | Gurpreet K    |
| 18                                       | GURSIMRAN KAUR   | AB                       | 1    | 2     | 3     | 4     | AB   | AB    | 5     | 6     | 7     | 8     | 9      | 10     | 11     | AB    | Gursimran K   |
| 19                                       | MANDEEP KUMAR    | 1                        | AB   | 3     | AB    | 4     | 5    | 6     | AB    | 7     | 8     | AB    | 9      | AB     | 10     | 11    | Mandeep K     |
| 20                                       | RIZWAN RASOOL    | 1                        | 2    | 3     | 4     | 5     | 6    | 7     | 8     | AB    | 9     | 10    | AB     | AB     | 11     | 12    | Rizwan R      |
| 21                                       | SHARIQ BASHIR    | 1                        | 2    | ab    | 3     | AB    | 4    | 5     | 6     | AB    | AB    | 7     | 8      | 9      | AB     | 10    | Sharik Bashir |
| 22                                       | BHARTI SONI      | AB                       | 1    | 2     | 3     | 4     | AB   | AB    | 5     | 6     | 7     | 8     | 9      | 10     | 11     | AB    | Bharti Soni   |
| 23                                       | DEEPANSHU TANDOL | 1                        | AB   | 3     | AB    | 4     | 5    | 6     | AB    | 7     | 8     | AB    | 9      | AB     | 10     | 11    | Deepanshu T   |
| 24                                       | JATIN GAUTAM     | 1                        | 2    | 3     | 4     | 5     | 6    | 7     | 8     | AB    | 9     | 10    | AB     | AB     | 11     | 12    | Jatin Gautam  |
| 25                                       | JYOTI DEVI       | 1                        | 2    | ab    | 3     | AB    | 4    | 5     | 6     | AB    | AB    | 7     | 8      | 9      | AB     | 10    | Jyoti Devi    |

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*Deepanshu T*



# STAAD PRO

## Course Objective:

To impart knowledge on

- The course objective is to train the students in structural Modeling, Designing and Analysis, Integrated Design and Finite Element Analysis. This course will help the students to familiarize on the analysis and design of different kinds of structures.

## Course Outcome:

At the end of the course, the students will be able to

- Analyze different kinds of structures for various combination of loading conditions as per codal provisions.

### Unit I

#### MODELLING

Introduction to STAAD - Starting a project - Modeling a structure Creating Nodes & Members Geometry wizard - Property definition - Material definition - Support definition - Specifications.

### Unit II

#### LOADING

Nodal load - Member loads - Uniform Force and Moment - Concentrated Force and Moment - Linear Varying Load - Trapezoidal Load - Hydrostatic Load - Area load - Floor load.

### Unit III

#### LOAD DEFINITIONS

Wind load - Creating Load Combination - Automatic Load Combination - Edit Auto Load Rules - Moving load - Seismic load.

### Unit IV

#### ANALYSIS AND DESIGN

Frame Analysis - Truss Analysis - Concrete Design - Steel Design.

### Unit V

#### PROJECT REPORT

8 Importing CAD Models - Report Setup - Plotting from STAAD.Pro - Final Project

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2020-21**

| S.NO | ROLL NO | NAME             | BRANCH      | YEAR | VALUE ADDED COURSE |
|------|---------|------------------|-------------|------|--------------------|
| 1    | 1708152 | SHARNTH THAKUR   | B.Tech CSE  | 4th  | STAAD PRO          |
| 2    | 1708153 | SHIVBAM KUMAR    | B.Tech CSE  | 4th  | STAAD PRO          |
| 3    | 1708154 | SHUBH KUMAR      | B.Tech CSE  | 4th  | STAAD PRO          |
| 4    | 1708155 | SHUBHAM          | B.Tech CSE  | 4th  | STAAD PRO          |
| 5    | 1708156 | SHUBHAM CHANDAL  | B.Tech CSE  | 4th  | STAAD PRO          |
| 6    | 1708157 | SHUBHAM SHARMA   | B.Tech CSE  | 4th  | STAAD PRO          |
| 7    | 1708158 | SOURAV SHARMA    | B.Tech CSE  | 4th  | STAAD PRO          |
| 8    | 1708159 | SUKHWINDER KAUR  | B.Tech CSE  | 4th  | STAAD PRO          |
| 9    | 1708160 | TAMNNA           | B.Tech CSE  | 4th  | STAAD PRO          |
| 10   | 1806951 | ANKIT KAUL       | B.Tech CSE  | 3rd  | STAAD PRO          |
| 11   | 1806952 | ANOOB KUMAR      | B.Tech CSE  | 3rd  | STAAD PRO          |
| 12   | 1806953 | ARSHDEEP SINGH   | B.Tech CSE  | 3rd  | STAAD PRO          |
| 13   | 1806955 | ATUL KUMAR       | B.Tech CSE  | 3rd  | STAAD PRO          |
| 14   | 1806956 | BHARTI SHUKLE    | B.Tech CSE  | 3rd  | STAAD PRO          |
| 15   | 1806957 | DALBIR SINGH     | B.Tech CSE  | 3rd  | STAAD PRO          |
| 16   | 1806958 | DILBAG SINGH     | B.Tech CSE  | 3rd  | STAAD PRO          |
| 17   | 1806959 | GURPREET KAUR    | B.Tech CSE  | 3rd  | STAAD PRO          |
| 18   | 2005344 | GURSIMRAN KAUR   | M.TECH CSE  | 1ST  | STAAD PRO          |
| 19   | 2005345 | MANDEEP KUMAR    | M.TECH CSE  | 1ST  | STAAD PRO          |
| 20   | 2005346 | RIZWAN RASOOL    | M.TECH(CSE) | 1ST  | STAAD PRO          |
| 21   | 2005347 | SHARIQ BASHIR    | M.TECH(CSE) | 1ST  | STAAD PRO          |
| 22   | 1934521 | BHARTI SONI      | MCA         | 2nd  | STAAD PRO          |
| 23   | 1934519 | DEEPANSHU TANDOU | MCA         | 2nd  | STAAD PRO          |
| 24   | 1906462 | JATIN GAUTAM     | MCA         | 2nd  | STAAD PRO          |
| 25   | 1906463 | JYOTI DEVI       | MCA         | 2nd  | STAAD PRO          |





# IETBHADDAL

TECHNICAL  
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OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

## Academic Year 2020-21

### Activity organized Report

Date : 17-05-2021

|                               |                                                                                                                                                                                                                                                                                                            |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                         |
| Title of Activity             | CRYPTO CURRENCY                                                                                                                                                                                                                                                                                            |
| Programme                     | MBA                                                                                                                                                                                                                                                                                                        |
| Date of Commencement          | 08-02-2021                                                                                                                                                                                                                                                                                                 |
| Date of Completion            | 17-05-2021                                                                                                                                                                                                                                                                                                 |
| Place of activity             | F102                                                                                                                                                                                                                                                                                                       |
| No of participants Enrolled   | 25                                                                                                                                                                                                                                                                                                         |
| No of participants completed  | 18                                                                                                                                                                                                                                                                                                         |
| Course Coordinator and Expert | BHAWNA ARORA                                                                                                                                                                                                                                                                                               |
| Summary of activity           | The value added course for the Even Semester During the Academic Year 2020-21 was Successfully Organized .The Course On “CRYPTO CURRENCY” was covered .It Was aimed at various course students to get knowledge of currency .A total of 25 students registered for the course and 18 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                            |

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# IET BHADDAL

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TECHNICAL  
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ROPAR

## Crypto Currency VALUE ADDED COURSE



### Cryptocurrency

[krip-tō-'kər-ən(t)-sē]

A digital or virtual currency secured by cryptography and based on a network that is distributed across a large number of computers.

Commencement from:-

8/2/2021

Coordinator:-

Neha

Department of MBA

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Date: 8/2/2021

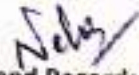
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Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2020-21. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class | Contact Hrs | Date of Commencement | Expert        |
|------|----------------------------|-------|-------------|----------------------|---------------|
| 1    | CRYPTO CURRENCY            | MBA   | 30/45       | 08-02-2021           | NEHA MANDITTA |
|      |                            |       |             |                      |               |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

  
Thanks and Regards

Course co-ordinator

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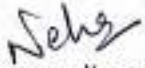
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UGC approved (2f & 12B) | Affiliated to IKG-PTU (Jalandhar)

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DATE 6/2/2024

## NOTICE

It is for the information of all students of - That **MBA** department is conducting value added course entitled **CRYPTO CURRENCY** from -08-02-2021. The Course is scheduled for -45 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

  
Head of Department

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Cc : principal ( For Kind information please)  
Head Of all Departments ( For Information)  
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Dept of MBA  
2020-21.

| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                  |                                |       |       |      |      |       |       |       |      |       |                        |       |      |       |       |                  |
|------------------------------------------|------------------|--------------------------------|-------|-------|------|------|-------|-------|-------|------|-------|------------------------|-------|------|-------|-------|------------------|
| DURATION 3HRS/                           |                  | Name Of Course CRYPTO CURRENCY |       |       |      |      |       |       |       |      |       | Course Duration 45 HRS |       |      |       |       |                  |
| S.no                                     | Name             | 8//2                           | 15//2 | 22//2 | 1//3 | 8//3 | 15//3 | 22//3 | 29//3 | 5//4 | 12//4 | 19//4                  | 26//4 | 3//5 | 10//5 | 17//5 | SIGNATURE        |
| 1                                        | AMANPREET KAUR   | 1                              | 2     | ab    | 3    | AB   | 4     | 5     | 6     | AB   | AB    | 7                      | 8     | 9    | AB    | 10    | Amanpreet Kaur   |
| 2                                        | AMANPREET SINGH  | AB                             | 1     | 2     | 3    | 4    | AB    | AB    | 5     | 6    | 7     | 8                      | 9     | 10   | 11    | AB    | Amanpreet Singh  |
| 3                                        | ATHAR TANVEER    | 1                              | AB    | 3     | AB   | 4    | 5     | 6     | AB    | 7    | 8     | AB                     | 9     | AB   | 10    | 11    | Athar Tanveer    |
| 4                                        | BHARAT PANDITA   | 1                              | 2     | 3     | 4    | 5    | 6     | 7     | 8     | AB   | 9     | 10                     | AB    | AB   | 11    | 12    | Bharat Pandita   |
| 5                                        | IQBAL SINGH      | 1                              | 2     | ab    | 3    | AB   | 4     | 5     | 6     | AB   | AB    | 7                      | 8     | 9    | AB    | 10    |                  |
| 6                                        | KIRANDEEP KAUR   | AB                             | 1     | 2     | 3    | 4    | AB    | AB    | 5     | 6    | 7     | 8                      | 9     | 10   | 11    | AB    |                  |
| 7                                        | MAHINDER KAUR    | 1                              | AB    | 3     | AB   | 4    | 5     | 6     | AB    | 7    | 8     | AB                     | 9     | AB   | 10    | 11    |                  |
| 8                                        | MANJEET KAUR     | 1                              | 2     | 3     | 4    | 5    | 6     | 7     | 8     | AB   | 9     | 10                     | AB    | AB   | 11    | 12    |                  |
| 9                                        | MANPREET KAUR    | 1                              | AB    | 3     | AB   | 4    | 5     | 6     | AB    | 7    | 8     | AB                     | 9     | AB   | 10    | 11    |                  |
| 10                                       | MANVIR KAUR      | 1                              | 2     | 3     | 4    | 5    | 6     | 7     | 8     | AB   | 9     | 10                     | AB    | AB   | 11    | 12    | Manvir Kaur      |
| 11                                       | SARBJIT KAUR     | 1                              | 2     | ab    | 3    | AB   | 4     | 5     | 6     | AB   | AB    | 7                      | 8     | 9    | AB    | 10    | Sarbjit Kaur     |
| 12                                       | SIMRANPREET KAUR | AB                             | 1     | 2     | 3    | 4    | AB    | AB    | 5     | 6    | 7     | 8                      | 9     | 10   | 11    | AB    | Simranpreet Kaur |
| 13                                       | AAMIR AHMAD      | 1                              | 2     | ab    | 3    | AB   | 4     | 5     | 6     | AB   | AB    | 7                      | 8     | 9    | AB    | 10    | Aamir Ahmad      |
| 14                                       | AMANDEEP KAUR    | AB                             | 1     | 2     | 3    | 4    | AB    | AB    | 5     | 6    | 7     | 8                      | 9     | 10   | 11    | AB    | Amandeep Kaur    |
| 15                                       | ANILPREET SASAN  | 1                              | AB    | 3     | AB   | 4    | 5     | 6     | AB    | 7    | 8     | AB                     | 9     | AB   | 10    | 11    | Anilpreet Sasan  |
| 16                                       | DALJEET KAUR     | 1                              | 2     | 3     | 4    | 5    | 6     | 7     | 8     | AB   | 9     | 10                     | AB    | AB   | 11    | 12    | Daljeet Kaur     |
| 17                                       | DIKSHA POSWAL    | 1                              | 2     | ab    | 3    | AB   | 4     | 5     | 6     | AB   | AB    | 7                      | 8     | 9    | AB    | 10    | Diksha Poswal    |
| 18                                       | KARAMJIT KAUR    | AB                             | 1     | 2     | 3    | 4    | AB    | AB    | 5     | 6    | 7     | 8                      | 9     | 10   | 11    | AB    | Karamjit Kaur    |
| 19                                       | MANPREET KAUR    | 1                              | AB    | 3     | AB   | 4    | 5     | 6     | AB    | 7    | 8     | AB                     | 9     | AB   | 10    | 11    | Manpreet Kaur    |
| 20                                       | MUKESH KUMAR     | 1                              | 2     | 3     | 4    | 5    | 6     | 7     | 8     | AB   | 9     | 10                     | AB    | AB   | 11    | 12    | Mukesh Kumar     |
| 21                                       | RAMANDEEP KAUR   | 1                              | 2     | ab    | 3    | AB   | 4     | 5     | 6     | AB   | AB    | 7                      | 8     | 9    | AB    | 10    |                  |
| 22                                       | REEMA SOOD       | AB                             | 1     | 2     | 3    | 4    | AB    | AB    | 5     | 6    | 7     | 8                      | 9     | 10   | 11    | AB    | Reema Sood       |
| 23                                       | SATKIRAT KAUR    | 1                              | AB    | 3     | AB   | 4    | 5     | 6     | AB    | 7    | 8     | AB                     | 9     | AB   | 10    | 11    | Satkirat Kaur    |
| 24                                       | SHUBHAM          | 1                              | 2     | 3     | 4    | 5    | 6     | 7     | 8     | AB   | 9     | 10                     | AB    | AB   | 11    | 12    | Shubham          |
| 25                                       | SUKHDEEP KAUR    | 1                              | 2     | ab    | 3    | AB   | 4     | 5     | 6     | AB   | AB    | 7                      | 8     | 9    | AB    | 10    |                  |

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# BITCOIN AND CRYPTOCURRENCY

**Course Objectives:** The block chain technology course allows the students to explore the driving force behind the cryptocurrency Bitcoin. Along with the Decentralization, Cryptography, Bitcoins with its alternative coins, Smart contracts and outside of currencies.

Introduction to Bitcoin:

## Unit-I

Cryptography and Technical Foundations: Cryptographic primitives, Asymmetric cryptography, Public and private keys . Cryptocurrency: History, Distributed Ledger, Bitcoin protocols - Mining strategy and rewards, Ethereum - Construction, DAO, Smart Contract, GHOST, Vulnerability, Attacks, Sidechain, Namecoin.

**Unit-II** Cryptocurrency Regulation: Stakeholders, Roots of Bit coin, Legal Aspects-Cryptocurrency Exchange, Black Market and Global Economy. Applications: Internet of Things, Medical

Record Management System, Domain Name Service and future of Blockchain. Decentralization and

Cryptography

## Unit-III

Bitcoin and Alternative Coins A: Bitcoin, Transactions, Blockchain, Bitcoin payments B: Alternative Coins, Theoretical foundations, Bitcoin limitations, Namecoin, Litecoin, Primecoin, Zcash

## Unit-IV

BitCoin and Cryptocurrency: What is Bitcoin, The Bitcoin Network, The Bitcoin Mining Process, Mining Developments, Bitcoin Wallets, Decentralization and Hard Forks, Ethereum Virtual

Machine (EVM), Merkle Tree

## Unit-V

Double-Spend Problem, Blockchain And Digital Currency, Transactional Blocks, Impact Of Blockchain Technology On Cryptocurrency

Course outcomes:

**At the end of the course the student will be able to:**

1. Understand the types, benefits and limitation of block chain.
2. Explore the block chain decentralization and cryptography concepts.
3. Enumerate the Bitcoin features and its alternative options.
4. Describe and deploy the smart contracts
5. Summarize the block chain features outside of currencies

**Textbook/ Textbooks:** Mastering Block chain - Distributed ledgers, decentralization and smart contracts explained, Author- Imran Bashir, Packt Publishing Ltd, Second Edition, ISBN 978-1-78712-544-5, 2017 Reference Books

Bitcoin and Cryptocurrency Technologies: Author- Arvind Narayanan, Joseph Bonneau,  
Edward Felten, Andrew Miller, Steven Goldfeder, Princeton University, 2016

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2020-21**

| S.NO | ROLL NO | NAME               | BRANCH | YEAR | VALUE ADDED COURSE |
|------|---------|--------------------|--------|------|--------------------|
| 1    | 2005305 | AMANPREET KAUR     | MBA    | 1ST  | CRYPTO CURRENCY    |
| 2    | 2005306 | AMANPREET SINGH    | MBA    | 1ST  | CRYPTO CURRENCY    |
| 3    | 2005307 | ATHAR TANVEER DAR  | MBA    | 1ST  | CRYPTO CURRENCY    |
| 4    | 2005308 | BHARAT PANDITA     | MBA    | 1ST  | CRYPTO CURRENCY    |
| 5    | 2005312 | IQBAL SINGH        | MBA    | 1ST  | CRYPTO CURRENCY    |
| 6    | 2005315 | KIRANDEEP KAUR     | MBA    | 1ST  | CRYPTO CURRENCY    |
| 7    | 2005317 | MAHINDER KAUR      | MBA    | 1ST  | CRYPTO CURRENCY    |
| 8    | 2005318 | MANJEET KAUR       | MBA    | 1ST  | CRYPTO CURRENCY    |
| 9    | 2005320 | MANPREET KAUR      | MBA    | 1ST  | CRYPTO CURRENCY    |
| 10   | 2005321 | MANVIR KAUR        | MBA    | 1ST  | CRYPTO CURRENCY    |
| 11   | 2005326 | SARBJIT KAUR       | MBA    | 1ST  | CRYPTO CURRENCY    |
| 12   | 2005329 | SIMRANPREET KAUR   | MBA    | 1ST  | CRYPTO CURRENCY    |
| 13   | 1934537 | AAMIR AHMAD KAMKAR | MBA    | 2ND  | CRYPTO CURRENCY    |
| 14   | 1906424 | AMANDEEP KAUR      | MBA    | 2ND  | CRYPTO CURRENCY    |
| 15   | 1906425 | ANILPREET SASAN    | MBA    | 2ND  | CRYPTO CURRENCY    |
| 16   | 1906426 | DALJEET KAUR       | MBA    | 2ND  | CRYPTO CURRENCY    |
| 17   | 1906427 | DIKSHA POSWAL      | MBA    | 2ND  | CRYPTO CURRENCY    |
| 18   | 1906429 | KARAMJIT KAUR      | MBA    | 2ND  | CRYPTO CURRENCY    |
| 19   | 1906430 | MANPREET KAUR      | MBA    | 2ND  | CRYPTO CURRENCY    |
| 20   | 1906431 | MUKESH KUMAR       | MBA    | 2ND  | CRYPTO CURRENCY    |
| 21   | 1906432 | RAMANDEEP          | MBA    | 2ND  | CRYPTO             |

|    |         |               |     |     |                    |
|----|---------|---------------|-----|-----|--------------------|
|    |         | KAUR          |     |     | CURRENCY           |
| 22 | 1906433 | REEMA SOOD    | MBA | 2ND | CRYPTO<br>CURRENCY |
| 23 | 1906434 | SATKIRAT KAUR | MBA | 2ND | CRYPTO<br>CURRENCY |
| 24 | 1906435 | SHUBHAM       | MBA | 2ND | CRYPTO<br>CURRENCY |
| 25 | 1934532 | SUKHDEEP KAUR | MBA | 2ND | CRYPTO<br>CURRENCY |

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# IETBHADDAL

TECHNICAL  
CAMPUS  
OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

Academic Year 2020-21

Activity organized Report

Date : 26.04.2021

|                               |                                                                                                                                                                                                                                                                                                            |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                         |
| Title of Activity             | WIND ENERGY                                                                                                                                                                                                                                                                                                |
| Programme                     | EE,ME,CIVIL                                                                                                                                                                                                                                                                                                |
| Date of Commencement          | 18/1/2021                                                                                                                                                                                                                                                                                                  |
| Date of Completion            | 26/04/2021                                                                                                                                                                                                                                                                                                 |
| Place of activity             | D004                                                                                                                                                                                                                                                                                                       |
| No of participants Enrolled   | 20                                                                                                                                                                                                                                                                                                         |
| No of participants completed  | 17                                                                                                                                                                                                                                                                                                         |
| Course Coordinator and Expert | KAMALJIT SINGH                                                                                                                                                                                                                                                                                             |
| Summary of activity           | The value added course for the Even Semester During the Academic Year 2020-21 was Successfully Organized .The Course On “WIND ENERGY ” was covered .It Was aimed at various course students to get knowledge of wind Energy .A total of 20 students registered for the course and 17 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                            |

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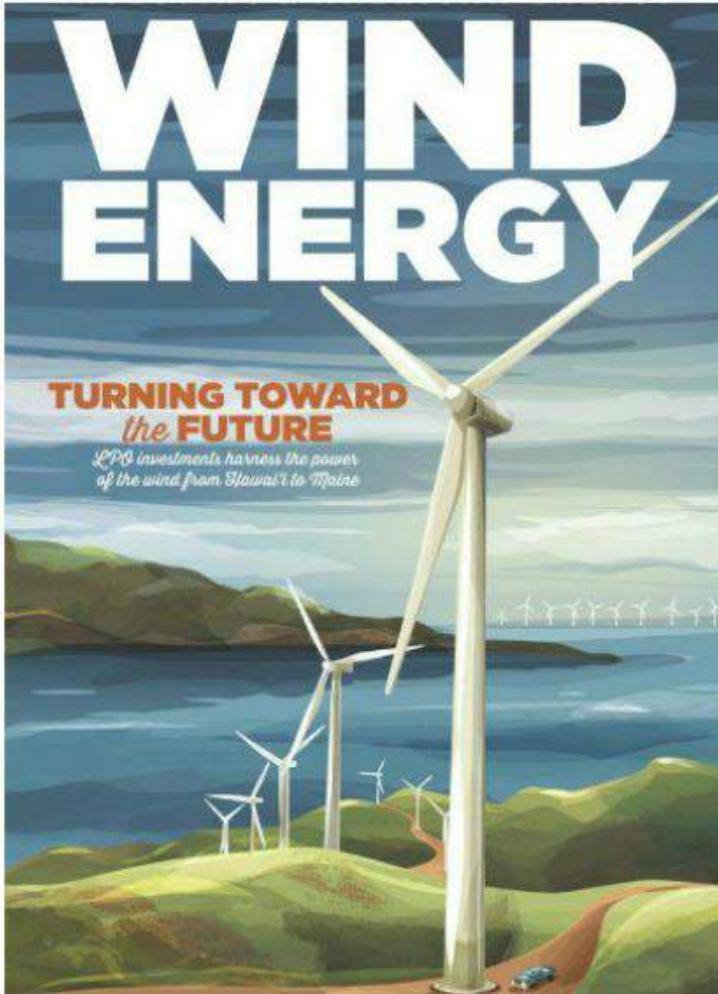
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## Wind Energy



*Value Added Course*

*Commencement from: -  
18/01/2021*

*Coordinator:-  
Kamaljit Singh*

*Organised by:-  
Department of  
Electrical Engineering  
Bhaddal*

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Date : 18/1/2021

IET/DEPT-EE/187

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Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2020-21. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class       | Contact Hrs | Date of Commencement | Expert         |
|------|----------------------------|-------------|-------------|----------------------|----------------|
| 1    | WIND ENERGY                | EE,ME,CIVIL | 30/45       | 18/1/2021            | KAMALJIT SINGH |
|      |                            |             |             |                      |                |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

Course co-ordinator





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IET/NAC/EE/441

DATE 19/1/2021

## NOTICE

It is for the information of all students of - That **EE** department is conducting value added course entitled -WIND ENERGY from -18/1/2021. The Course is scheduled for - 45hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

  
Head of Department

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Head Of all Departments ( For Information)  
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Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)



Dept of BE 2020-21

| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                     |                            |       |      |      |       |       |      |      |       |       |                       |      |       |       |       |                    |
|------------------------------------------|---------------------|----------------------------|-------|------|------|-------|-------|------|------|-------|-------|-----------------------|------|-------|-------|-------|--------------------|
| DURATION 3HR                             |                     | Name Of Course WIND ENERGY |       |      |      |       |       |      |      |       |       | Course Duration 45hrs |      |       |       |       |                    |
| S.no                                     | Name                | 18//1                      | 25//1 | 1//2 | 8//2 | 15//2 | 22//2 | 1//3 | 8//3 | 15//3 | 22//3 | 29//3                 | 5//4 | 12//4 | 19//4 | 26//4 | SIGNATURE          |
| 1                                        | KUNDAN KUMAR        | 1                          | 2     | ab   | 3    | AB    | 4     | 5    | 6    | AB    | AB    | 7                     | 8    | 9     | AB    | 10    | Kundan Kumar       |
| 2                                        | BIKRAMJEET SINGH    | AB                         | 1     | 2    | 3    | 4     | AB    | AB   | 5    | 6     | 7     | 8                     | 9    | 10    | 11    | AB    | Bikramjeet Singh   |
| 3                                        | PARMINDER SINGH     | 1                          | AB    | 3    | AB   | 4     | 5     | 6    | AB   | 7     | 8     | AB                    | 9    | AB    | 10    | 11    | Parminder Singh    |
| 4                                        | MOHAMMAD ASLAM WANI | 1                          | 2     | 3    | 4    | 5     | 6     | 7    | 8    | AB    | 9     | 10                    | AB   | AB    | 11    | 12    | Mohamed Aslam Wani |
| 5                                        | AAMIR NAZIR         | 1                          | 2     | ab   | 3    | AB    | 4     | 5    | 6    | AB    | AB    | 7                     | 8    | 9     | AB    | 10    | Aamir Nazir        |
| 6                                        | ADNAN QAYOOM        | AB                         | 1     | 2    | 3    | 4     | AB    | AB   | 5    | 6     | 7     | 8                     | 9    | 10    | 11    | AB    | Adnan Qayoom       |
| 7                                        | AKSHAYAT KOIRAL     | 1                          | AB    | 3    | AB   | 4     | 5     | 6    | AB   | 7     | 8     | AB                    | 9    | AB    | 10    | 11    | Akshayat Koiral    |
| 8                                        | DEEPAK KUMAR        | 1                          | 2     | 3    | 4    | 5     | 6     | 7    | 8    | AB    | 9     | 10                    | AB   | AB    | 11    | 12    | Deepak Kumar       |
| 9                                        | ELIZABETH KALYOT    | 1                          | AB    | 3    | AB   | 4     | 5     | 6    | AB   | 7     | 8     | AB                    | 9    | AB    | 10    | 11    | Elizabeth Kalyot   |
| 10                                       | AKSHIT JASWAL       | 1                          | 2     | 3    | 4    | 5     | 6     | 7    | 8    | AB    | 9     | 10                    | AB   | AB    | 11    | 12    | Akshit Jaswal      |
| 11                                       | GURPREET KAUR       | 1                          | 2     | ab   | 3    | AB    | 4     | 5    | 6    | AB    | AB    | 7                     | 8    | 9     | AB    | 10    | Gurpreet Kaur      |
| 12                                       | MANVIR SINGH        | AB                         | 1     | 2    | 3    | 4     | AB    | AB   | 5    | 6     | 7     | 8                     | 9    | 10    | 11    | AB    | Manvir Singh       |
| 13                                       | RAHUL KUMAR         | 1                          | 2     | ab   | 3    | AB    | 4     | 5    | 6    | AB    | AB    | 7                     | 8    | 9     | AB    | 10    | Rahul Kumar        |
| 14                                       | RAJAN BABU SAH      | AB                         | 1     | 2    | 3    | 4     | AB    | AB   | 5    | 6     | 7     | 8                     | 9    | 10    | 11    | AB    | Rajan Babu Sah     |
| 15                                       | RAJAT KUMAR         | 1                          | AB    | 3    | AB   | 4     | 5     | 6    | AB   | 7     | 8     | AB                    | 9    | AB    | 10    | 11    | Rajat Kumar        |
| 16                                       | SAHIL MINHAS        | 1                          | 2     | 3    | 4    | 5     | 6     | 7    | 8    | AB    | 9     | 10                    | AB   | AB    | 11    | 12    | Sahil Minhas       |
| 17                                       | SUMESH KUMAR        | 1                          | 2     | ab   | 3    | AB    | 4     | 5    | 6    | AB    | AB    | 7                     | 8    | 9     | AB    | 10    | Sumesh Kumar       |
| 18                                       | LUMANO MWELEMKA     | AB                         | 1     | 2    | 3    | 4     | AB    | AB   | 5    | 6     | 7     | 8                     | 9    | 10    | 11    | AB    | Lumano Mwelemka    |
| 19                                       | MANDEEP SINGH       | 1                          | AB    | 3    | AB   | 4     | 5     | 6    | AB   | 7     | 8     | AB                    | 9    | AB    | 10    | 11    | Mandeep Singh      |
| 20                                       | AKSHIT JOSHI        | 1                          | 2     | 3    | 4    | 5     | 6     | 7    | 8    | AB    | 9     | 10                    | AB   | AB    | 11    | 12    | Akshit Joshi       |

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# WIND ENERGY

## COURSE OUTCOMES

Upon successful completion of the course, the student must be able to Understand the basics of wind energy, wind turbines, solar energy and grid integration.

CO2 Explain and classify wind turbines, instruments for measuring solar radiation, solar collectors, solar cell and solar MPPT techniques

CO3 Analyze different types of wind generators, solar cell and solar collectors

CO4 Outline about integration of solar and wind energy systems

Contribution of Course Outcomes towards achievement of Program Outcomes & Strength of correlations (3:High, 2: Medium, 1:Low)

## SYLLABUS

### Unit

#### I Wind energy Basics

History of wind power, Indian and Global statistics, Characteristics of Wind, principles of wind energy conversion, components of wind energy conversion system, classification of wind turbines- horizontal axis and vertical axis, Betz limit ratio, advantages and disadvantages of wind energy system.

#### II Wind turbine technologies

Review of modern wind turbine technologies, Fixed and Variable speed wind turbine, Squirrel-cage Induction generator, Wound rotor motor induction generators, Doubly Fed Induction Generator, Synchronous Generators, Permanent Magnet Synchronous Generators and their characteristics.

#### III Integration of solar and wind

Wind power integration into grid-power system stability, economics of grid network, codes and standards for grid integration, grid connected PV systems, control scheme used for single stage grid connected PV system, case study on hybrid system(PV-Wind)

### Learning Resources

#### Text Books:

1. Non-Conventional Energy Sources by G.D. Rai, Khanna publishers, 5th edition, 2014.
2. Wind Energy Theory and Practice by Siraj Ahmed publisher PHI learning Pvt Ltd , 3rd edition, 2016
3. Renewable Energy Sources and Emerging Technologies by D.P Kothari, K.C Singal, RakeshRanjan , PHI learning Pvt Ltd, 2nd edition , 2012

#### Reference Books:

1. Renewable Energy resources by Tiwari and Ghosal, publisher Narosa, 2005
2. Solar Photo Voltaics Fundamentals, Technology and application by Chetan Singh Solanki, publisher PHI learning Pvt Ltd, 3rd edition, 2019

3. Renewable Energy Resources by John Twidell and Tony Weir , publisher Taylor and Francis, 2nd edition 2006

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2020-21**

| S.NO | ROLL NO | NAME                | BRANCH       | YEAR | VALUE ADDED COURSE |
|------|---------|---------------------|--------------|------|--------------------|
| 1    | 1708124 | KUNDAN KUMAR        | B.Tech ME    | 4th  | WIND ENERGY        |
| 2    | 1807028 | BIKRAMJEET SINGH    | B.Tech ME    | 3rd  | WIND ENERGY        |
| 3    | 1807029 | PARMINDER SINGH     | B.Tech ME    | 3rd  | WIND ENERGY        |
| 4    | 1834626 | MOHAMMAD ASLAM WANI | B.Tech ME    | 3rd  | WIND ENERGY        |
| 5    | 1708068 | AAMIR NAZIR         | B.tech Civil | 4th  | WIND ENERGY        |
| 6    | 1708070 | ADNAN QAYOOM        | B.tech Civil | 4th  | WIND ENERGY        |
| 7    | 1708071 | AKSHAYAT KOIRALA    | B.tech Civil | 4th  | WIND ENERGY        |
| 8    | 1708073 | DEEPAK KUMAR        | B.tech Civil | 4th  | WIND ENERGY        |
| 9    | 1708075 | ELIZABETH KALYOTI   | B.tech Civil | 4th  | WIND ENERGY        |
| 10   | 1708164 | AKSHIT JASWAL       | B.Tech EE    | 4th  | WIND ENERGY        |
| 11   | 1708166 | GURPREET KAUR       | B.Tech EE    | 4th  | WIND ENERGY        |
| 12   | 1708167 | MANVIR SINGH        | B.Tech EE    | 4th  | WIND ENERGY        |
| 13   | 1708168 | RAHUL KUMAR         | B.Tech EE    | 4th  | WIND ENERGY        |
| 14   | 1708169 | RAJAN BABU SAH      | B.Tech EE    | 4th  | WIND ENERGY        |
| 15   | 1708170 | RAJAT KUMAR         | B.Tech EE    | 4th  | WIND ENERGY        |
| 16   | 1708171 | SAHIL MINHAS        | B.Tech EE    | 4th  | WIND ENERGY        |
| 17   | 1708172 | SUMESH KUMAR        | B.Tech EE    | 4th  | WIND ENERGY        |
| 18   | 1806986 | LUMANO MWELEMKA     | B.Tech EE    | 3rd  | WIND ENERGY        |
| 19   | 1806987 | MANDEEP SINGH       | B.Tech EE    | 3rd  | WIND ENERGY        |
| 20   | 1807009 | AKSHIT JOSHI        | B.Tech ME    | 3rd  | WIND ENERGY        |

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Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**



## Academic Year 2020-21

### Activity organized Report

Date : 28.04.2021

|                               |                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                                    |
| Title of Activity             | MATERIALS PROCESSING                                                                                                                                                                                                                                                                                                                  |
| Programme                     | ENGG ME                                                                                                                                                                                                                                                                                                                               |
| Date of Commencement          | 20-01-2021                                                                                                                                                                                                                                                                                                                            |
| Date of Completion            | 28-04-2021                                                                                                                                                                                                                                                                                                                            |
| Place of activity             | C BLOCK SEMINAR HALL                                                                                                                                                                                                                                                                                                                  |
| No of participants Enrolled   | 26                                                                                                                                                                                                                                                                                                                                    |
| No of participants completed  | 17                                                                                                                                                                                                                                                                                                                                    |
| Course Coordinator and Expert | VARINDER MOHAN                                                                                                                                                                                                                                                                                                                        |
| Summary of activity           | The value added course for the Even Semester During the Academic Year 2020-21 was Successfully Organized .The Course On “MATERIALS PROCESSING” was covered .It Was aimed at various course students to get knowledge of materials and how to procee it .A total of 26 students registered for the course and 17 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                                       |

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# Materials Processing

A Unified Approach to Processing  
of Metals, Ceramics and Polymers



*value added  
course*

**Commencement**

**from:-**

**20/1/2021**

**COORDINATOR:-**

**VARINDER  
MOHAN**

**Department of Mechanical Engineering**

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IET/DEPT. ME / 2019.

Date: 20/1/2021.

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**Permission For Conducting value added course and allocate faculty member for same**

It is to bring to your kind notice that following value added course is finalized For academic Year 2020-21-.The details of value added Course is as follow

| S.no | Name of Value Added Course | Class    | Contact Hrs | Date of Commencement | Expert         |
|------|----------------------------|----------|-------------|----------------------|----------------|
| 1    | MATERIALS PROCESSING       | ME,CIVIL | 30/45       | 20-01-2021           | VARINDER MOHAN |
|      |                            |          |             |                      |                |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

*Varinder Mohan*  
Course co-ordinator

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)



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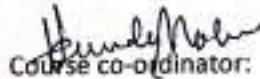
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IET-NAC/ME/189

DATE 20/1/2021

## NOTICE

It is for the information of all students of - That **ME** department is conducting value added course entitled -**MATERIALS PROCESSING** from -20-01-2021. The Course is scheduled for - 45hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

  
Head of Department

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Head Of all Departments ( For information)  
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Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)





| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                     |                                     |       |      |       |       |       |      |       |       |       |       |      |                        |       |       |                     | Date: 11/12/2020-21 |  |
|------------------------------------------|---------------------|-------------------------------------|-------|------|-------|-------|-------|------|-------|-------|-------|-------|------|------------------------|-------|-------|---------------------|---------------------|--|
| DURATION 3HR                             |                     | Name Of Course MATERIALS PROCESSING |       |      |       |       |       |      |       |       |       |       |      | Course Duration 45 HRS |       |       |                     | SIGNATURE           |  |
| S.no                                     | Name                | 20//1                               | 27//1 | 3//2 | 10//2 | 17//2 | 24//2 | 3//3 | 10//3 | 17//3 | 24//3 | 31//3 | 7//4 | 14//4                  | 21//4 | 28//4 |                     |                     |  |
| 1                                        | AMIT KUMAR          | 1                                   | 2     | ab   | 3     | AB    | 4     | 5    | 6     | AB    | AB    | 7     | 8    | 9                      | AB    | 10    | Amit Kumar          |                     |  |
| 2                                        | CHIRAG SHARMA       | AB                                  | 1     | 2    | 3     | 4     | AB    | AB   | 5     | 6     | 7     | 8     | 9    | 10                     | 11    | AB    | Chirag Sharma       |                     |  |
| 3                                        | HAPPY               | 1                                   | AB    | 3    | AB    | 4     | 5     | 6    | AB    | 7     | 8     | AB    | 9    | AB                     | 10    | 11    | Happy               |                     |  |
| 4                                        | HARBHAJAN SINGH     | 1                                   | 2     | 3    | 4     | 5     | 6     | 7    | 8     | AB    | 9     | 10    | AB   | AB                     | 11    | 12    | Harbhajan Singh     |                     |  |
| 5                                        | MUKUL KUMAR         | 1                                   | 2     | ab   | 3     | AB    | 4     | 5    | 6     | AB    | AB    | 7     | 8    | 9                      | AB    | 10    | Mukul Kumar         |                     |  |
| 6                                        | NAVJOT SINGH        | AB                                  | 1     | 2    | 3     | 4     | AB    | AB   | 5     | 6     | 7     | 8     | 9    | 10                     | 11    | AB    | Navjot Singh        |                     |  |
| 7                                        | AKSHIT JOSHI        | 1                                   | AB    | 3    | AB    | 4     | 5     | 6    | AB    | 7     | 8     | AB    | 9    | AB                     | 10    | 11    | Akshat Joshi        |                     |  |
| 8                                        | ANMOL SHARMA        | 1                                   | 2     | 3    | 4     | 5     | 6     | 7    | 8     | AB    | 9     | 10    | AB   | AB                     | 11    | 12    | Anmol Sharma        |                     |  |
| 9                                        | ASHOOK KUMAR SAH    | 1                                   | AB    | 3    | AB    | 4     | 5     | 6    | AB    | 7     | 8     | AB    | 9    | AB                     | 10    | 11    | Ashook Kumar Sah    |                     |  |
| 10                                       | BALWINDER SINGH     | 1                                   | 2     | 3    | 4     | 5     | 6     | 7    | 8     | AB    | 9     | 10    | AB   | AB                     | 11    | 12    | Balwinder Singh     |                     |  |
| 11                                       | DURGESH TIWARI      | 1                                   | 2     | ab   | 3     | AB    | 4     | 5    | 6     | AB    | AB    | 7     | 8    | 9                      | AB    | 10    | Durgesh Tiwari      |                     |  |
| 12                                       | GURCHARAN SINGH     | AB                                  | 1     | 2    | 3     | 4     | AB    | AB   | 5     | 6     | 7     | 8     | 9    | 10                     | 11    | AB    | Gurcharan Singh     |                     |  |
| 13                                       | Manoj Sharma        | 1                                   | 2     | ab   | 3     | AB    | 4     | 5    | 6     | AB    | AB    | 7     | 8    | 9                      | AB    | 10    | Manoj Sharma        |                     |  |
| 14                                       | Umesh Singh Chandel | AB                                  | 1     | 2    | 3     | 4     | AB    | AB   | 5     | 6     | 7     | 8     | 9    | 10                     | 11    | AB    | Umesh Singh Chandel |                     |  |
| 15                                       | VINAYAK KAUSHAL     | 1                                   | AB    | 3    | AB    | 4     | 5     | 6    | AB    | 7     | 8     | AB    | 9    | AB                     | 10    | 11    | Vinayak Kaushal     |                     |  |
| 16                                       | nitin               | 1                                   | 2     | 3    | 4     | 5     | 6     | 7    | 8     | AB    | 9     | 10    | AB   | AB                     | 11    | 12    | Nitin               |                     |  |
| 17                                       | tarun bains         | 1                                   | 2     | ab   | 3     | AB    | 4     | 5    | 6     | AB    | AB    | 7     | 8    | 9                      | AB    | 10    | Tarun Bains         |                     |  |
| 18                                       | CHAKSHU PURI        | AB                                  | 1     | 2    | 3     | 4     | AB    | AB   | 5     | 6     | 7     | 8     | 9    | 10                     | 11    | AB    | Chakshu Puri        |                     |  |
| 19                                       | GANESH KUMAR        | 1                                   | AB    | 3    | AB    | 4     | 5     | 6    | AB    | 7     | 8     | AB    | 9    | AB                     | 10    | 11    | Ganesh Kumar        |                     |  |
| 20                                       | HARMANPREET SINGH   | 1                                   | 2     | 3    | 4     | 5     | 6     | 7    | 8     | AB    | 9     | 10    | AB   | AB                     | 11    | 12    | Harmanpreet Singh   |                     |  |
| 21                                       | NIKHIL BANGA        | 1                                   | 2     | ab   | 3     | AB    | 4     | 5    | 6     | AB    | AB    | 7     | 8    | 9                      | AB    | 10    | Nikhil Banga        |                     |  |
| 22                                       | PRERNA SHARMA       | AB                                  | 1     | 2    | 3     | 4     | AB    | AB   | 5     | 6     | 7     | 8     | 9    | 10                     | 11    | AB    | Prerna Sharma       |                     |  |
| 23                                       | ROHIT THAKUR        | 1                                   | AB    | 3    | AB    | 4     | 5     | 6    | AB    | 7     | 8     | AB    | 9    | AB                     | 10    | 11    | Rohit Thakur        |                     |  |
| 24                                       | SHEKHAR             | 1                                   | 2     | 3    | 4     | 5     | 6     | 7    | 8     | AB    | 9     | 10    | AB   | AB                     | 11    | 12    | Shekhar             |                     |  |
| 25                                       | SHIVJEET SINGH      | 1                                   | 2     | ab   | 3     | AB    | 4     | 5    | 6     | AB    | AB    | 7     | 8    | 9                      | AB    | 10    | Shivjeet Singh      |                     |  |
| 26                                       | SIKAS BATT          | AB                                  | 1     | 2    | 3     | 4     | AB    | AB   | 5     | 6     | 7     | 8     | 9    | 10                     | 11    | AB    | Sikas Batta         |                     |  |

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Vandana Maheswari



## **MATERIALS AND PROCESSING**

### **Unit 1**

Types and forms of reinforcement and their properties. Pre-fabricated forms. Selection of matrices: physical and mechanical properties. Bonding mechanisms. Types of reinforcement distributions: uniform, gradient and surface. Factors in composite design. Structure-property relationships.

**Unit 2** Models of various materials properties of composites: density, modulus, strength, specific heat, coefficient of thermal expansion, thermal conductivity and diffusivity, electrical conductivity and dielectric constant. Isotropic and anisotropic properties.

### **Unit 3**

Fabrication techniques: infiltration, casting, reaction sintering, electro-deposition, diffusion bonding, thermal and plasma spray forming, laser method, powder forming, additive processes, crystal growth and physical vapour deposition.

### **Unit 4**

Testing and inspection methods. Laminated Composites, Sample level lamination, case studies.

### **Unit 5**

Experimental techniques, compositional analyses (introduction) and qualification of composites. Instrumental characterization and introduction to advanced characterization techniques

(XRD, XRF, ITR, SEM, TEM, TGA etc). Non-Destructive Analyses of Composites.

### **TEXT BOOKS/ REFERENCES:**

1. Clyne, T. W. and Withers, P. J., “An Introduction to Metal Matrix Composites”, Cambridge University Press, 1993.
2. Matthews, F. L. and Rawlings, R. D., “Composite Materials: Engineering and Science”, Chapman & Hall, London, 1994.
3. Suresh, S., Martensen, A., and Needleman, A., “Fundamentals of Metal Matrix Composites”, Butterworth Heinemann, 1993.
4. Kainer, K.U., “Metal Matrix Composites: custom-made materials for automotive and aerospace engineering”, Wiley-VCH, 2006

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2020-21**

| S.NO | ROLL NO | NAME                | BRANCH    | YEAR | VALUE ADDED COURSE   |
|------|---------|---------------------|-----------|------|----------------------|
| 1    | 1708208 | SHIVAM GAUD         | B.Tech ME | 4th  | MATERIALS PROCESSING |
| 2    | 1708224 | AKHIL THAKUR        | B.Tech ME | 4th  | MATERIALS PROCESSING |
| 3    | 1708225 | AMRINDER SINGH      | B.Tech ME | 4th  | MATERIALS PROCESSING |
| 4    | 1708226 | SHREY SOOD          | B.Tech ME | 4th  | MATERIALS PROCESSING |
| 5    | 1708201 | MUKUL KUMAR         | B.Tech ME | 4th  | MATERIALS PROCESSING |
| 6    | 1708202 | NAVJOT SINGH        | B.Tech ME | 4th  | MATERIALS PROCESSING |
| 7    | 1804982 | TARUN BAINS         | B.Tech ME | 3rd  | MATERIALS PROCESSING |
| 8    | 1807028 | BIKRAMJEET SINGH    | B.Tech ME | 3rd  | MATERIALS PROCESSING |
| 9    | 1834626 | MOHAMMAD ASLAM WANI | B.Tech ME | 3rd  | MATERIALS PROCESSING |
| 10   | 1807012 | BALWINDER SINGH     | B.Tech ME | 3rd  | MATERIALS PROCESSING |
| 11   | 1834619 | DURGESH TIWARI      | B.Tech ME | 3rd  | MATERIALS PROCESSING |
| 12   | 1807013 | GURCHARAN SINGH     | B.Tech ME | 3rd  | MATERIALS PROCESSING |
| 13   | 1807009 | Manoj Sharma        | B.Tech ME | 3rd  | MATERIALS PROCESSING |
| 14   | 1807010 | Umesh Singh Chandel | B.Tech ME | 3rd  | MATERIALS PROCESSING |
| 15   | 1807011 | VINAYAK KAUSHAL     | B.Tech ME | 3rd  | MATERIALS PROCESSING |
| 16   | 1807012 | nitiin              | B.Tech ME | 3rd  | MATERIALS PROCESSING |
| 17   | 1834619 | tarun bains         | B.Tech ME | 3rd  | MATERIALS PROCESSING |
| 18   | 1906437 | CHAKSHU PURI        | B.Tech ME | 2nd  | MATERIALS PROCESSING |
| 19   | 1906438 | GANESH KUMAR        | B.Tech ME | 2nd  | MATERIALS            |

|    |         |                   |           |     |                      |
|----|---------|-------------------|-----------|-----|----------------------|
|    |         |                   |           |     | PROCESSING           |
| 20 | 1906439 | HARMANPREET SINGH | B.Tech ME | 2nd | MATERIALS PROCESSING |
| 21 | 1906441 | NIKHIL BANGA      | B.Tech ME | 2nd | MATERIALS PROCESSING |
| 22 | 1906442 | PRERNA SHARMA     | B.Tech ME | 2nd | MATERIALS PROCESSING |
| 23 | 1934518 | ROHIT THAKUR      | B.Tech ME | 2nd | MATERIALS PROCESSING |
| 24 | 1906444 | SHEKHAR           | B.Tech ME | 2nd | MATERIALS PROCESSING |
| 25 | 1906445 | SHIVJEET SINGH    | B.Tech ME | 2nd | MATERIALS PROCESSING |
| 26 | 1934517 | SIKAS BATTIA      | B.Tech ME | 2nd | MATERIALS PROCESSING |

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# IETBHADDAL

TECHNICAL  
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OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

Academic Year 2020-21

Activity organized Report

Date :22.04.2021

|                               |                                                                                                                                                                                                                                                                                                                              |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                           |
| Title of Activity             | ESTIMATION OF REINFORCEMENT                                                                                                                                                                                                                                                                                                  |
| Programme                     | ENGG,ARCH                                                                                                                                                                                                                                                                                                                    |
| Date of Commencement          | 14-01-2021                                                                                                                                                                                                                                                                                                                   |
| Date of Completion            | 22-04-2021                                                                                                                                                                                                                                                                                                                   |
| Place of activity             | C BLOCK SEMINAR HALL                                                                                                                                                                                                                                                                                                         |
| No of participants Enrolled   | 13                                                                                                                                                                                                                                                                                                                           |
| No of participants completed  | 11                                                                                                                                                                                                                                                                                                                           |
| Course Coordinator and Expert | HARDEEP SINGH                                                                                                                                                                                                                                                                                                                |
| Summary of activity           | The value added course for the Even Semester During the Academic Year 2020-21 was Successfully Organized .The Course On “ESTIMATION OF REINFORCEMENT ” was covered .It Was aimed at various course students to get knowledge of reinforcement .A total of 13 students registered for the course and 11 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                              |

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# IET BHADDAL

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UGC approved (2f & 12B) | Affiliated to IKG-PTU (Jalandhar)

TECHNICAL  
CAMPUS  
ROPAR



## Estimation of Reinforcement

value  
added  
course



commencement from:- 14/1/2021

Coordinator:- Hardeep Singh  
Department of Civil Engineering

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IET/DEPT. Civil / 143

Date: 14/1/2021

PRINCIPAL  
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ROPAR

Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2020-21-. The details of value added Course is as follow

| S.no | Name of Value Added Course  | Class                   | Contact Hrs | Date of Commencement | Expert        |
|------|-----------------------------|-------------------------|-------------|----------------------|---------------|
| 1    | ESTIMATION OF REINFORCEMENT | B.TECH<br>CIVIL, B.ARCH | 30/45       | 14-01-2021           | HARDEEP SINGH |
|      |                             |                         |             |                      |               |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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Thanks and Regards  
*Hardeep*  
Course co-ordinator





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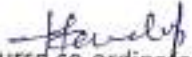
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IET NAC/CE/016

DATE 14/1/2024

## NOTICE

It is for the information of all students of - That CE department is conducting value added course entitled -ESTIMATION OF REINFORCEMENT from -14/1/2021. The Course is scheduled for -45 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator;

  
Head of Department

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Cc: principal ( For Kind information please)  
Head Of all Departments ( For Information)  
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2020-21.

| ATTENDENCE SHEET FOR VALUE ADDED COURSES |                   |                                            |       |       |      |       |       |       |      |       |       |       |      |      |       |       |                   |
|------------------------------------------|-------------------|--------------------------------------------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|------|-------|-------|-------------------|
| DURATION 3HR                             |                   | Name Of Course ESTIMATION OF REINFORCEMENT |       |       |      |       |       |       |      |       |       |       |      |      |       |       |                   |
| S.no                                     | Name              | 14//1                                      | 21//1 | 28//1 | 4//2 | 11//2 | 18//2 | 25//2 | 4//3 | 11//3 | 18//3 | 25//3 | 1//4 | 8//4 | 15//4 | 22//4 | SIGNATURE         |
| 1                                        | Gaurav Verma      | 1                                          | 2     | ab    | 3    | AB    | 4     | 5     | 6    | AB    | AB    | 7     | 8    | 9    | AB    | 10    | Gaurav Verma      |
| 2                                        | Geetanjali Sharrn | AB                                         | 1     | 2     | 3    | 4     | AB    | AB    | 5    | 6     | 7     | 8     | 9    | 10   | 11    | AB    | Geetanjali Sharrn |
| 3                                        | Mandhir Singh     | 1                                          | AB    | 3     | AB   | 4     | 5     | 6     | AB   | 7     | 8     | AB    | 9    | AB   | 10    | 11    | Mandhir Singh     |
| 4                                        | NITIN DOGRA       | 1                                          | 2     | 3     | 4    | 5     | 6     | 7     | 8    | AB    | 9     | 10    | AB   | AB   | 11    | 12    | Nitin Dogra       |
| 5                                        | Prachi Walia      | 1                                          | 2     | ab    | 3    | AB    | 4     | 5     | 6    | AB    | AB    | 7     | 8    | 9    | AB    | 10    | Prachi Walia      |
| 6                                        | PRIYANKA KAUSHAL  | AB                                         | 1     | 2     | 3    | 4     | AB    | AB    | 5    | 6     | 7     | 8     | 9    | 10   | 11    | AB    | Priyanka Kaushal  |
| 7                                        | Randeep Kaur      | 1                                          | AB    | 3     | AB   | 4     | 5     | 6     | AB   | 7     | 8     | AB    | 9    | AB   | 10    | 11    | Randeep Kaur      |
| 8                                        | PRIYA             | 1                                          | 2     | 3     | 4    | 5     | 6     | 7     | 8    | AB    | 9     | 10    | AB   | AB   | 11    | 12    | Priya             |
| 9                                        | RAHUL RAJ         | 1                                          | AB    | 3     | AB   | 4     | 5     | 6     | AB   | 7     | 8     | AB    | 9    | AB   | 10    | 11    | Rahul Raj         |
| 10                                       | RANBEER THAKUR    | 1                                          | 2     | 3     | 4    | 5     | 6     | 7     | 8    | AB    | 9     | 10    | AB   | AB   | 11    | 12    | Ranbeer Thakur    |
| 11                                       | RAVNEET KAUR      | 1                                          | 2     | ab    | 3    | AB    | 4     | 5     | 6    | AB    | AB    | 7     | 8    | 9    | AB    | 10    | Ravneet Kaur      |
| 12                                       | SANGHARSH KAITI   | AB                                         | 1     | 2     | 3    | 4     | AB    | AB    | 5    | 6     | 7     | 8     | 9    | 10   | 11    | AB    | Sangharsh Kaiti   |
| 13                                       | SANU KUMAR THA    | 1                                          | 2     | ab    | 3    | AB    | 4     | 5     | 6    | AB    | AB    | 7     | 8    | 9    | AB    | 10    | Sanu Kumar Thakur |

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# ESTIMATION AND REINFORCEMENT

## 1 Introduction :

- 1.1. Meaning & objectives of estimating & costing, Skills required for a good estimator.
- 1.2. Types of estimate - Approximate and Detailed, Approximate estimate - Plinth area rate method, Cubical Content method, Service Unit method, Typical bay method, Approximate Quantity method. Problems on Plinth area rate method & application of Service unit. Detailed estimate types- Revised estimate, Supplementary estimate, revised & supplementary estimate and Maintenance & Repair estimate.
- 1.3. Mode of Measurements - Units of Measurements for different item of works as per IS 1200 & As per PWD specification Book. Rules of deductions for openings as per IS 1200 for brickwork, plastering, painting.
- 1.4. Preparation of measurement and abstract sheets.
- 2.1. General Principles, Methods – Centre line and Long wall and short wall methods.
- 2.2. Abstracting bills of quantities, schedule items, lump sum provisional items, prime cost, provision for electrification, drainage & water supply, contingencies, work charged establishment.
- 3 Detailed Estimate :
  - 3.1 Procedure for taking out quantities for various items of works as per IS 1200. Unit quantity method, Total quantity method, data required for detailed estimate.
  - 3.2 Factors to be considered during preparation of detailed estimate – Percentage of reinforcement for various structural members, Bar bending Schedule concept.
  - 3.3 Preparing detailed estimate for -a. Single storey Load bearing Structure (small residential building with One room, Two room, Kitchen, Bath & W.C., Verandah) by Long Wall and short wall method and Centerline method. b. Two- storied residential Framed Structure building by centreline method
  - c. RCC work for weather-shed with lintel, slab, beam, and column with footings and staircase using modern construction materials. d. Earthwork quantity for a road profile.
- 4 Rate Analysis:
  - 4.1 Meaning of term rate analysis, Factors affecting rate analysis, Task work, Quantity of materials required for different item of works, Standard schedule of rates.
  - 4.2 Analysis of rates for items of civil engineering works - P.C.C., Brickwork, RCC works, Stone masonry, Plastering & Pointing, Flooring, Waterproofing, Plumbing, RMC, Shuttering and Cast in situ concrete,
- 5 Specification:
  - 5.1 Definition, types, Purpose and Legal aspect.
  - 5.2 General and Technical specifications for various items of construction – earthwork in excavation of foundation trenches and back filling, lime concrete and cement concrete in foundation, RCC work, Ist class brickwork, random and course rubble masonry, DPC., plastering.

1. Estimating & Costing , Specification and Valuation in Civil Engineering by M.

Chakraborti, edition-21st 2008, publisher- M. Chakraborti, 21 B, Bhabananda Road, Kolkatta-700026.

1 Prepare check list of items for following Civil engineering works.

i) Load bearing structure

ii) Framed structure

iii) Road work

02

2 Prepare Market rates survey report for modern construction materials and items.

02

3 Taking out quantities of various items of work for load bearing structure 04

4 Taking out quantities of various items of work for R.C.C Framed structure. 04

5 Prepare a detailed estimate for Load bearing structure ( G+ 1) 05

6 Prepare a detailed estimate for R.C.C Framed structure ( G+ 2) 05

7 Prepare estimate by using approximate estimate method. 02

8 Taking out quantities of earthwork for a road profile. 02

9 Prepare rate analysis for at least six items of work- RCC in beams & slabs, Columns, Brick masonry, Stone masonry, Plastering & Pointing, Flooring , waterproofing, Plumbing, Cut & bent, Light weight blocks, RCC with fly ash with current market rates.

10 Draft a detailed specification for at least six items of construction. 02

11 Solve any five problems on Valuation. 02

### **Reference Books :**

1. Estimation & costing by G.S. Birdie, Edition 6th reprint, Publisher-Dhanpatrai and sons, Delhi.

2. Estimating & Costing by S.C. Rangwala, Edition 2002, Publisher- Charotar Publication Anand

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2020-21**

| S.NO | ROLL NO | NAME              | BRANCH       | YEAR | VALUE ADDED COURSE          |
|------|---------|-------------------|--------------|------|-----------------------------|
| 1    | 1608645 | Gaurav Verma      | B.Arch       | 5TH  | ESTIMATION OF REINFORCEMENT |
| 2    | 1608646 | Geetanjali Sharma | B.Arch       | 5TH  | ESTIMATION OF REINFORCEMENT |
| 3    | 1608647 | Mandhir Singh     | B.Arch       | 5TH  | ESTIMATION OF REINFORCEMENT |
| 4    | 1608648 | NITIN DOGRA       | B.Arch       | 5TH  | ESTIMATION OF REINFORCEMENT |
| 5    | 1608649 | Prachi Walia      | B.Arch       | 5TH  | ESTIMATION OF REINFORCEMENT |
| 6    | 1608650 | PRIYANKA KAUSHAL  | B.Arch       | 5TH  | ESTIMATION OF REINFORCEMENT |
| 7    | 1608651 | Randeep Kaur      | B.Arch       | 5TH  | ESTIMATION OF REINFORCEMENT |
| 8    | 1708093 | PRIYA             | B.tech Civil | 4TH  | ESTIMATION OF REINFORCEMENT |
| 9    | 1708094 | RAHUL RAJ         | B.tech Civil | 4TH  | ESTIMATION OF REINFORCEMENT |
| 10   | 1708095 | RANBEER THAKUR    | B.tech Civil | 4TH  | ESTIMATION OF REINFORCEMENT |
| 11   | 1708096 | RAVNEET KAUR      | B.tech Civil | 4TH  | ESTIMATION OF REINFORCEMENT |
| 12   | 1708097 | SANGHARSH KAITH   | B.tech Civil | 4TH  | ESTIMATION OF REINFORCEMENT |
| 13   | 1708098 | SANU KUMAR THAPA  | B.tech Civil | 4TH  | ESTIMATION OF REINFORCEMENT |

SHUBLAKSHAN SINGH BINDRA

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# IETBHADDAL

TECHNICAL  
CAMPUS  
OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

SHUBLAKS  
HAN SINGH  
BINDRA

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**Principal**

**Date of issue**

### 1.2.1 QnM Number of Add on /Certificate/Value added programs offered during 2019-20

| Name of Certificate/ Value added course offered and online courses of MOOCs, SWAYAM, NPTEL etc. where the students of the institution have enrolled and successfully completed | Course Code | Period (from date - to date) | Duration of course | Number of students enrolled in the year | Link                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------|--------------------|-----------------------------------------|----------------------|
| FAULT ANALYSIS AT HOME                                                                                                                                                         | VAIET01     | 11/7/2019 TO 17/10/2019      | 45HRS              | 20                                      | <a href="#">view</a> |
| CALIBRATION AND MEASUREMENT                                                                                                                                                    | VAIET02     | 16/7/2019 TO 22/10/2019      | 45HRS              | 16                                      | <a href="#">view</a> |
| COURSE IN ADVERTISING                                                                                                                                                          | VAIET03     | 31/7/2019 TO 06/11/2019      | 45HRS              | 35                                      | <a href="#">view</a> |
| PROJECT PLANNING                                                                                                                                                               | VAIET04     | 15/7/2019 TO 21/10/2019      | 45HRS              | 22                                      | <a href="#">view</a> |
| MOTIVATIONAL ENHANCEMENT                                                                                                                                                       | VAIET05     | 4/8/2019 TO 10/11/2019       | 45HRS              | 20                                      | <a href="#">view</a> |
| ACADEMIC RESEARCH AND REPORT WRITING                                                                                                                                           | VAIET06     | 13/01/2020 TO 20/04/2020     | 45HRS              | 29                                      | <a href="#">view</a> |
| BASICS OF IOT                                                                                                                                                                  | VAIET07     | 10/01/2020 TO 17/04/2020     | 45HRS              | 17                                      | <a href="#">view</a> |
| PHYSICS MAGIC OF MATERIALS                                                                                                                                                     | VAIET08     | 16/1/2020 TO 23/04/2020      | 45HRS              | 35                                      | <a href="#">view</a> |
| CLOUD INVENTOR                                                                                                                                                                 | VAIET09     | 6/1/2020 TO 13/04/2020       | 45HRS              | 11                                      | <a href="#">view</a> |
| CLIMATE CHANGE                                                                                                                                                                 | VAIET10     | 22/01/2020 TO 29/04/2020     | 45HRS              | 37                                      | <a href="#">view</a> |
| MAKING AND MAINTENANCE OF ELECTRICAL APPLIANCES                                                                                                                                | VAIET11     | 23/01/2020 TO 30/04/2020     | 45HRS              | 45                                      | <a href="#">view</a> |



# IET BHADDAL

Campus: Bhaddal, PO Mianpur, Distt. Ropar, Punjab-140108 (India)  
UGC approved (2f & 12B) | Affiliated to IKG-PTU (Jalandhar)

TECHNICAL  
CAMPUS  
ROPAR

SHUBLAK  
SHAN  
SINGH  
BINDRA

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2019-20**

| S.NO  | PROGRAM NAME | TOTAL NO OF STUDENTS | NO OF STUDENTS ENROLLED WITHOUT REPEAT |
|-------|--------------|----------------------|----------------------------------------|
| 1     | B.TECH CSE   | 58                   | 58                                     |
| 2     | B.TECH ECE   | 7                    | 7                                      |
| 3     | B.TECH EE    | 28                   | 24                                     |
| 4     | B.TECH CIVIL | 41                   | 41                                     |
| 5     | B.TECH ME    | 24                   | 24                                     |
| 6     | B.ARCH       | 32                   | 32                                     |
| 7     | M.TECH CSE   | 5                    | 5                                      |
| 8     | M.TECH EE    | 17                   | 17                                     |
| 9     | MBA          | 48                   | 43                                     |
| 10    | MCA          | 23                   | 15                                     |
| 11    | MARCH        | 5                    | 5                                      |
| TOTAL |              | 288                  | 271                                    |

SHUBLAKS  
HAN SINGH  
BINDRA

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2019-20**

| S.NO | ROLL NO | NAME               | BRANCH     | YEAR | VALUE ADDED COURSE                  |
|------|---------|--------------------|------------|------|-------------------------------------|
| 1    | 1708115 | DEEPAK             | B.Tech CSE | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 2    | 1708116 | DEEPAK KUMAR       | B.Tech CSE | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 3    | 1708117 | DEPINDER KAUR      | B.Tech CSE | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 4    | 1708119 | FARHAN NABI        | B.Tech CSE | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 5    | 1708120 | GUNJAN KAURA       | B.Tech CSE | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 6    | 1708121 | HEMANT KUMAR       | B.Tech CSE | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 7    | 1708126 | MANISH KUMAR       | B.Tech CSE | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 8    | 1708127 | MANISH SAH         | B.Tech CSE | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 9    | 1708131 | NAND KISHOR        | B.Tech CSE | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 10   | 1708193 | AMIT KUMAR         | B.Tech ME  | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 11   | 1708196 | CHIRAG SHARMA      | B.Tech ME  | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 12   | 1708197 | HAPPY              | B.Tech ME  | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 13   | 1708198 | HARBHAJAN SINGH    | B.Tech ME  | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 14   | 1807035 | ARSHEED AHMAD KHAN | M.Tech EE  | 2nd  | ACADEMIC RESEARCH AND               |

|    |         | GOJER           |            |     | REPORTWRITING                       |
|----|---------|-----------------|------------|-----|-------------------------------------|
| 15 | 1807036 | ASIA MANZOOR    | M.Tech EE  | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 16 | 1807039 | DANISH RASHIED  | M.Tech EE  | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 17 | 1807042 | JAUAID MUSHTAQ  | M.Tech EE  | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 18 | 1807043 | JEHANGIR RASHID | M.Tech EE  | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 19 | 1806989 | AJAY KUMAR      | MBA        | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 20 | 1806990 | AMANPREET KAUR  | MBA        | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 21 | 1834618 | AMRITPAL KAUR   | MBA        | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 22 | 1806991 | AMRTA RANI      | MBA        | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 23 | 1806992 | AQIB FAROOQ     | MBA        | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 24 | 1806993 | DAMAN JOT KAUR  | MBA        | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 25 | 1806994 | farooz din shah | MBA        | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 26 | 1806995 | HARPREET KAUR   | MBA        | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 27 | 1806997 | KAMALJEET KAUR  | MBA        | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 28 | 1806999 | KIRANJEET KAUR  | MBA        | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 29 | 1807000 | NEHA BHATT      | MBA        | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 30 | 1806944 | ABHIJEET SINGH  | B.TECH CSE | 4th | BASICS OF IOT                       |
| 31 | 1806945 | ABHISHEK        | B.TECH CSE | 4th | BASICS OF IOT                       |

|    |         |                  |            |     |                              |
|----|---------|------------------|------------|-----|------------------------------|
|    |         | THAKUR           |            |     |                              |
| 32 | 1806946 | AKASHDEEP SINGH  | B.TECH CSE | 4th | BASICS OF IOT                |
| 33 | 1806947 | AKRITI           | B.TECH CSE | 4th | BASICS OF IOT                |
| 34 | 1806949 | AMIT KUMAR       | B.TECH CSE | 4th | BASICS OF IOT                |
| 35 | 1806950 | AMRINDER SINGH   | B.TECH CSE | 4th | BASICS OF IOT                |
| 36 | 1806951 | ANKIT KAUL       | B.TECH CSE | 4th | BASICS OF IOT                |
| 37 | 1806952 | ANOOB KUMAR      | B.TECH CSE | 4th | BASICS OF IOT                |
| 38 | 1806955 | ATUL KUMAR       | B.TECH CSE | 4th | BASICS OF IOT                |
| 39 | 1806957 | DALBIR SINGH     | B.TECH CSE | 4th | BASICS OF IOT                |
| 40 | 1934521 | BHARTI SONI      | MCA        | 1st | BASICS OF IOT                |
| 41 | 1934519 | DEEPANSHU TANDOU | MCA        | 1st | BASICS OF IOT                |
| 42 | 1906462 | JATIN GAUTAM     | MCA        | 1st | BASICS OF IOT                |
| 43 | 1906463 | JYOTI DEVI       | MCA        | 1st | BASICS OF IOT                |
| 44 | 1906464 | KIRANDEEP KAUR   | MCA        | 1st | BASICS OF IOT                |
| 45 | 1906465 | KIRANPREET KAUR  | MCA        | 1st | BASICS OF IOT                |
| 46 | 1906466 | MANPREET KAUR    | MCA        | 1st | BASICS OF IOT                |
| 47 | 1906441 | NIKHIL BANGA     | B.tech ME  | 1st | CALIBERATION AND MEASUREMENT |
| 48 | 1906442 | PRERNA SHARMA    | B.tech ME  | 1st | CALIBERATION AND MEASUREMENT |
| 49 | 1934518 | ROHIT THAKUR     | B.tech ME  | 1st | CALIBERATION AND MEASUREMENT |
| 50 | 1906444 | SHEKHAR          | B.tech ME  | 1st | CALIBERATION AND MEASUREMENT |
| 51 | 1906445 | SHIVJEET SINGH   | B.tech ME  | 1st | CALIBERATION AND MEASUREMENT |
| 52 | 1934517 | SIKAS BATTIA     | B.tech ME  | 1st | CALIBERATION AND MEASUREMENT |
| 53 | 1906447 | WAEEL NOMAN      | B.tech ME  | 1st | CALIBERATION AND MEASUREMENT |
| 54 | 1906422 | ESHWAR           | B.tech EE  | 1st | CALIBERATION AND MEASUREMENT |
| 55 | 1906423 | GURPREET SINGH   | B.tech EE  | 1st | CALIBERATION AND             |



|    |         |                      |            |     |                                   |
|----|---------|----------------------|------------|-----|-----------------------------------|
|    |         |                      |            |     | MEASUREMENT                       |
| 56 | 1708164 | AKSHIT JASWAL        | B.Tech EE  | 3rd | CALIBRATION<br>AND<br>MEASUREMENT |
| 57 | 1708166 | GURPREET<br>KAUR     | B.Tech EE  | 3rd | CALIBRATION<br>AND<br>MEASUREMENT |
| 58 | 1708167 | MANVIR SINGH         | B.Tech EE  | 3rd | CALIBRATION<br>AND<br>MEASUREMENT |
| 59 | 1708168 | RAHUL KUMAR          | B.Tech EE  | 3rd | CALIBRATION<br>AND<br>MEASUREMENT |
| 60 | 1708169 | RAJAN BABU<br>SAH    | B.Tech EE  | 3rd | CALIBRATION<br>AND<br>MEASUREMENT |
| 61 | 1708170 | RAJAT KUMAR          | B.Tech EE  | 3rd | CALIBRATION<br>AND<br>MEASUREMENT |
| 62 | 1708171 | SAHIL MINHAS         | B.Tech EE  | 3rd | CALIBRATION<br>AND<br>MEASUREMENT |
| 63 | 1509942 | Aishi Oberoi         | B.Arch     | 5th | CLIMATE CHANGE                    |
| 64 | 1509943 | Aishwarya<br>Shanker | B.Arch     | 5th | CLIMATE CHANGE                    |
| 65 | 1509945 | Anshul Jamval        | B.Arch     | 5th | CLIMATE CHANGE                    |
| 66 | 1509946 | Aradhana             | B.Arch     | 5th | CLIMATE CHANGE                    |
| 67 | 1509947 | Avantika<br>Mahajan  | B.Arch     | 5th | CLIMATE CHANGE                    |
| 68 | 1509948 | Bhupender            | B.Arch     | 5th | CLIMATE CHANGE                    |
| 69 | 1509949 | Gurpreet Singh       | B.Arch     | 5th | CLIMATE CHANGE                    |
| 70 | 1509950 | himraj               | B.Arch     | 5th | CLIMATE CHANGE                    |
| 71 | 1608525 | ASHISH KUMAR         | B.Tech ECE | 4th | CLIMATE CHANGE                    |
| 72 | 1608526 | ATUL KUMAR           | B.Tech ECE | 4th | CLIMATE CHANGE                    |
| 73 | 1637821 | GULAB SINGH          | B.Tech ECE | 4th | CLIMATE CHANGE                    |
| 74 | 1608530 | SAHIL HIRA           | B.Tech ECE | 4th | CLIMATE CHANGE                    |
| 75 | 1608531 | VIKAS SHARMA         | B.Tech ECE | 4th | CLIMATE CHANGE                    |
| 76 | 1608532 | VIKAS TIWARI         | B.Tech ECE | 4th | CLIMATE CHANGE                    |
| 77 | 1608562 | AASHIQ<br>MUSHTAQ    | B.Tech ME  | 4th | CLIMATE CHANGE                    |
| 78 | 1608564 | ABHISHEK RANA        | B.Tech ME  | 4th | CLIMATE CHANGE                    |
| 79 | 1608565 | AFTAB ALAM           | B.Tech ME  | 4th | CLIMATE CHANGE                    |
| 80 | 1608566 | AJAY SINGH           | B.Tech ME  | 4th | CLIMATE CHANGE                    |
| 81 | 1608569 | AMANDEEP<br>SINGH    | B.Tech ME  | 4th | CLIMATE CHANGE                    |
| 82 | 1608496 | RAJINDER KAUR        | B.Tech CSE | 4th | CLIMATE CHANGE                    |
| 83 | 1608498 | RANDHIR<br>KUMAR     | B.Tech CSE | 4th | CLIMATE CHANGE                    |

|     |         |                       |            |     |                            |
|-----|---------|-----------------------|------------|-----|----------------------------|
| 84  | 1608500 | RITU BALA             | B.Tech CSE | 4th | CLIMATE CHANGE             |
| 85  | 1608501 | SAHIL                 | B.Tech CSE | 4th | CLIMATE CHANGE             |
| 86  | 1608502 | SAMEER<br>AHMAD BABA  | B.Tech CSE | 4th | CLIMATE CHANGE             |
| 87  | 1608504 | SARABJEET<br>SINGH    | B.Tech CSE | 4th | CLIMATE CHANGE             |
| 88  | 1608506 | SHIVANI               | B.Tech CSE | 4th | CLIMATE CHANGE             |
| 89  | 1608507 | SHIVANSHU<br>SINGH    | B.Tech CSE | 4th | CLIMATE CHANGE             |
| 90  | 1608508 | SUMEET KUMAR          | B.Tech CSE | 4th | CLIMATE CHANGE             |
| 91  | 1608509 | TANIA BHAWAN          | B.Tech CSE | 4th | CLIMATE CHANGE             |
| 92  | 1608510 | UMA DEVI              | B.Tech CSE | 4th | CLIMATE CHANGE             |
| 93  | 1807058 | Charanjit Kaur        | MCA        | 2nd | CLIMATE CHANGE             |
| 94  | 1807059 | DAMANPREET<br>KAUR    | MCA        | 2nd | CLIMATE CHANGE             |
| 95  | 1807061 | Kirandeep Kaur        | MCA        | 2nd | CLIMATE CHANGE             |
| 96  | 1807062 | NISHA                 | MCA        | 2nd | CLIMATE CHANGE             |
| 97  | 1807063 | RAMANDEEP<br>KAUR     | MCA        | 2nd | CLIMATE CHANGE             |
| 98  | 1807064 | RITIKA                | MCA        | 2nd | CLIMATE CHANGE             |
| 99  | 1807066 | SHUBHAM<br>BHARDWAJ   | MCA        | 2nd | CLIMATE CHANGE             |
| 100 | 1708113 | AMBUJ RAJ             | B.Tech CSE | 3rd | CLOUD INVENTOR             |
| 101 | 1708114 | DAVINDER<br>SINGH     | B.Tech CSE | 3rd | CLOUD INVENTOR             |
| 102 | 1708115 | DEEPAK                | B.Tech CSE | 3rd | CLOUD INVENTOR             |
| 103 | 1708116 | DEEPAK KUMAR          | B.Tech CSE | 3rd | CLOUD INVENTOR             |
| 104 | 1807057 | Anuradha Hans         | MCA        | 2nd | CLOUD INVENTOR             |
| 105 | 1807058 | Charanjit Kaur        | MCA        | 2nd | CLOUD INVENTOR             |
| 106 | 1807059 | DAMANPREET<br>KAUR    | MCA        | 2nd | CLOUD INVENTOR             |
| 107 | 1807061 | Kirandeep Kaur        | MCA        | 2nd | CLOUD INVENTOR             |
| 108 | 1807031 | JASPREET KAUR         | M.Tech CSE | 2nd | CLOUD INVENTOR             |
| 109 | 1807032 | MALEK AL<br>HOSAN     | M.Tech CSE | 2nd | CLOUD INVENTOR             |
| 110 | 1807033 | NEHA BANSAL           | M.Tech CSE | 2nd | CLOUD INVENTOR             |
| 111 | 1934537 | AAMIR AHMAD<br>KAMKAR | MBA        | 1st | COURSE IN<br>ADVERTISEMENT |
| 112 | 1906424 | AMANDEEP<br>KAUR      | MBA        | 1st | COURSE IN<br>ADVERTISEMENT |
| 113 | 1906425 | ANILPREET<br>SASAN    | MBA        | 1st | COURSE IN<br>ADVERTISEMENT |
| 114 | 1906426 | DALJEET KAUR          | MBA        | 1st | COURSE IN<br>ADVERTISEMENT |
| 115 | 1906427 | DIKSHA POSWAL         | MBA        | 1st | COURSE IN<br>ADVERTISEMENT |
| 116 | 1906429 | KARAMJIT KAUR         | MBA        | 1st | COURSE IN<br>ADVERTISEMENT |



# IET BHADDAL

Campus: Bhaddal, PO Mianpur, Distt. Ropar, Punjab-140108 (India)  
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## TECHNICAL CAMPUS ROPAR

|     |         |                     |     |     |                         |
|-----|---------|---------------------|-----|-----|-------------------------|
| 117 | 1906430 | MANPREET KAUR       | MBA | 1st | COURSE IN ADVERTISEMENT |
| 118 | 1906431 | MUKESH KUMAR        | MBA | 1st | COURSE IN ADVERTISEMENT |
| 119 | 1906432 | RAMANDEEP KAUR      | MBA | 1st | COURSE IN ADVERTISEMENT |
| 120 | 1906433 | REEMA SOOD          | MBA | 1st | COURSE IN ADVERTISEMENT |
| 121 | 1906434 | SATKIRAT KAUR       | MBA | 1st | COURSE IN ADVERTISEMENT |
| 122 | 1906435 | SHUBHAM             | MBA | 1st | COURSE IN ADVERTISEMENT |
| 123 | 1934532 | SUKHDEEP KAUR       | MBA | 1st | COURSE IN ADVERTISEMENT |
| 124 | 1934534 | Talib Ali bhat      | MBA | 1st | COURSE IN ADVERTISEMENT |
| 125 | 1934536 | Tanvir Ahmad Lone   | MBA | 1st | COURSE IN ADVERTISEMENT |
| 126 | 1807001 | POOJA SHARMA        | MBA | 2nd | COURSE IN ADVERTISEMENT |
| 127 | 1807002 | POONAM              | MBA | 2nd | COURSE IN ADVERTISEMENT |
| 128 | 1807003 | SENTNMBWE SHAKURU   | MBA | 2nd | COURSE IN ADVERTISEMENT |
| 129 | 1807004 | SHEENA SAINI        | MBA | 2nd | COURSE IN ADVERTISEMENT |
| 130 | 1807005 | TIWONGE KAPHAMIENGO | MBA | 2nd | COURSE IN ADVERTISEMENT |
| 131 | 1807007 | vaishali sharma     | MBA | 2nd | COURSE IN ADVERTISEMENT |
| 132 | 1806994 | farooz din shah     | MBA | 2nd | COURSE IN ADVERTISEMENT |
| 133 | 1806995 | HARPREET KAUR       | MBA | 2nd | COURSE IN ADVERTISEMENT |
| 134 | 1806997 | KAMALJEET KAUR      | MBA | 2nd | COURSE IN ADVERTISEMENT |
| 135 | 1806999 | KIRANJEET KAUR      | MBA | 2nd | COURSE IN ADVERTISEMENT |
| 136 | 1807000 | NEHA BHATT          | MBA | 2nd | COURSE IN ADVERTISEMENT |
| 137 | 1807001 | POOJA SHARMA        | MBA | 2nd | COURSE IN ADVERTISEMENT |
| 138 | 1807002 | POONAM              | MBA | 2nd | COURSE IN ADVERTISEMENT |
| 139 | 1807004 | SHEENA SAINI        | MBA | 2nd | COURSE IN ADVERTISEMENT |
| 140 | 1807007 | vaishali sharma     | MBA | 2nd | COURSE IN ADVERTISEMENT |

Phone no: +91-1881-244777, 244606, Fax: 01881-244749

Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)

SHUBLAKS  
HAN SINGH  
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|-----|---------|---------------------|-----------|-----|-------------------------|
| 141 | 1906456 | GURKIRAT SINGH      | M.ARCH    | 1ST | COURSE IN ADVERTISEMENT |
| 142 | 1906457 | GURPREET SINGH      | M.ARCH    | 1ST | COURSE IN ADVERTISEMENT |
| 143 | 1906458 | RAMANPREET KAUR     | M.ARCH    | 1ST | COURSE IN ADVERTISEMENT |
| 144 | 1906459 | RISHABH SINGH       | M.ARCH    | 1ST | COURSE IN ADVERTISEMENT |
| 145 | 1906460 | SAKSHI SAINI        | M.ARCH    | 1ST | COURSE IN ADVERTISEMENT |
| 146 | 1807036 | ASIA MANZOOR        | M.TECH EE | 2ND | Fault analysis at home  |
| 147 | 1807037 | BASU MAGOTRA        | M.TECH EE | 2ND | Fault analysis at home  |
| 148 | 1807040 | FAYIZ MANZOOR       | M.TECH EE | 2ND | Fault analysis at home  |
| 149 | 1807041 | GURDIP SINGH BALA   | M.TECH EE | 2ND | Fault analysis at home  |
| 150 | 1807042 | JAU AID MUSHTAQ     | M.TECH EE | 2ND | Fault analysis at home  |
| 151 | 1807043 | JEHANGIR RASHID     | M.TECH EE | 2ND | Fault analysis at home  |
| 152 | 1807044 | KANEEZ FATIMA       | M.TECH EE | 2ND | Fault analysis at home  |
| 153 | 1807045 | MEHAK MUSHTAQ       | M.TECH EE | 2ND | Fault analysis at home  |
| 154 | 1807048 | Raqaya mohi u din   | M.TECH EE | 2ND | Fault analysis at home  |
| 155 | 1807050 | SHEIKH SHAKIR ZAHOR | M.TECH EE | 2ND | Fault analysis at home  |
| 156 | 1807051 | SHERAZA BASHIR      | M.TECH EE | 2ND | Fault analysis at home  |
| 157 | 1807052 | UZNAIN FAROOQ       | M.TECH EE | 2ND | Fault analysis at home  |
| 158 | 1708209 | Sukhpreet Singh     | B.TECH EE | 3RD | Fault analysis at home  |
| 159 | 1708215 | AAMIR YOUSUF MALIK  | B.TECH EE | 3RD | Fault analysis at home  |
| 160 | 1708216 | GURDEEP SINGH       | B.TECH EE | 3RD | Fault analysis at home  |
| 161 | 1708168 | RAHUL KUMAR         | B.TECH EE | 3RD | Fault analysis at home  |
| 162 | 1708169 | RAJAN BABU SAH      | B.TECH EE | 3RD | Fault analysis at home  |
| 163 | 1708170 | RAJAT KUMAR         | B.TECH EE | 3RD | Fault analysis at home  |
| 164 | 1708171 | SAHIL MINHAS        | B.TECH EE | 3RD | Fault analysis at home  |



|     |         |                 |            |     |                                                 |
|-----|---------|-----------------|------------|-----|-------------------------------------------------|
| 165 | 1708172 | SUMESH KUMAR    | B.TECH EE  | 3RD | Fault analysis at home                          |
| 166 | 1608407 | GURSEWAK SINGH  | B.TECH EE  | 4TH | Fault analysis at home                          |
| 167 | 1608474 | KANCHAN SHARMA  | B.Tech CSE | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 168 | 1608475 | KIRANJEET KAUR  | B.Tech CSE | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 169 | 1608476 | KUNIK KUMAR     | B.Tech CSE | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 170 | 1608477 | LAKSHYA KASHYAP | B.Tech CSE | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 171 | 1608479 | MALKIT SINGH    | B.Tech CSE | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 172 | 1608481 | MANINDER KAUR   | B.Tech CSE | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 173 | 1608482 | MANJINDER SINGH | B.Tech CSE | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 174 | 1608484 | MANPREET KAUR   | B.Tech CSE | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 175 | 1608486 | MUKUL SHARMA    | B.Tech CSE | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 176 | 1608487 | NAVJOT KAUR     | B.Tech CSE | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 177 | 1608488 | PALLVI CHAUHAN  | B.Tech CSE | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 178 | 1608489 | PARUL VERMA     | B.Tech CSE | 4TH | MAKING AND                                      |



# IET BHADDAL

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## TECHNICAL CAMPUS ROPAR

|     |         |                   |              |     |                                                 |
|-----|---------|-------------------|--------------|-----|-------------------------------------------------|
|     |         |                   |              |     | MAINTAINACE OF ELECTRICAL APPLIANCES            |
| 179 | 1608490 | PARWINDERJIT KAUR | B.Tech CSE   | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 180 | 1637809 | PAWAN KUMAR       | B.Tech CSE   | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 181 | 1608594 | SAHIL KUMAR       | B.tech ME    | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 182 | 1608595 | SAURAV SUMAN      | B.tech ME    | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 183 | 1608597 | SIPPU KUMAR       | B.tech ME    | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 184 | 1608598 | SUKHPREET SINGH   | B.tech ME    | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 185 | 1608600 | SURAJ KUMAR SINGH | B.tech ME    | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 186 | 1608602 | TARUN KUMAR       | B.tech ME    | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 187 | 1608604 | VINOD KUMAR       | B.tech ME    | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 188 | 1637830 | WAHID HUSSAIN     | B.tech ME    | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 189 | 1608397 | ADARSH THAKUR     | B.TECH CIVIL | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 190 | 1608398 | AKASH CHOUDHARY   | B.TECH CIVIL | 4TH | MAKING AND MAINTAINACE OF                       |

Phone no: +91-1881-244777, 244606, Fax: 01881-244749

Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)

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# IET BHADDAL

Campus: Bhaddal, PO Mianpur, Distt. Ropar, Punjab-140108 (India)  
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## TECHNICAL CAMPUS ROPAR

|     |         |                     |              |     |                                                          |
|-----|---------|---------------------|--------------|-----|----------------------------------------------------------|
|     |         |                     |              |     | ELECTRICAL<br>APPLIANCES                                 |
| 191 | 1608399 | AKASH RANA          | B.TECH CIVIL | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 192 | 1608400 | ANKIT SHARMA        | B.TECH CIVIL | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 193 | 1608401 | AQIB BASHIR         | B.TECH CIVIL | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 194 | 1608402 | AZHAR MUSTAQ        | B.TECH CIVIL | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 195 | 1637792 | BUSMA JAN           | B.TECH CIVIL | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 196 | 1608403 | CHANDAN<br>KUMAR    | B.TECH CIVIL | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 197 | 1608404 | DEEPAK KUMAR        | B.TECH CIVIL | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 198 | 1608405 | DHARAM PAL          | B.TECH CIVIL | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 199 | 1608406 | DIPESH KUMAR<br>JHA | B.TECH CIVIL | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 200 | 1608408 | HIMANSHU<br>MEHTA   | B.TECH CIVIL | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 201 | 1637815 | ABHISHEK            | B.TECH EE    | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 202 | 1608514 | ARSHDEEP<br>SINGH   | B.TECH EE    | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL               |

|     |         |                 |            |     |                                                 |
|-----|---------|-----------------|------------|-----|-------------------------------------------------|
|     |         |                 |            |     | APPLIANCES                                      |
| 203 | 1608515 | ARYAN           | B.TECH EE  | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 204 | 1608407 | GURSEWAK SINGH  | B.TECH EE  | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 205 | 1637816 | KARAN KATARIA   | B.TECH EE  | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 206 | 1608521 | KARTIK JASWAL   | B.TECH EE  | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 207 | 1637799 | NSIBAMBI HUSAAN | B.TECH EE  | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 208 | 1637817 | PARWINDER SINGH | B.TECH EE  | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 209 | 1637819 | TARANJEET SINGH | B.TECH EE  | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 210 | 1608523 | Vishal Kumar    | B.TECH EE  | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 211 | 1608532 | VIKAS TIWARI    | B.TECH ECE | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 212 | 1708052 | ADITYA GUPTA    | B.ARCH     | 4TH | MOTIVATIONAL ENHANCEMENT                        |
| 213 | 1708053 | ANIT KUMAR      | B.ARCH     | 4TH | MOTIVATIONAL ENHANCEMENT                        |
| 214 | 1708054 | ANJALI          | B.ARCH     | 4TH | MOTIVATIONAL ENHANCEMENT                        |
| 215 | 1708055 | HARJEEVAN KAUR  | B.ARCH     | 4TH | MOTIVATIONAL ENHANCEMENT                        |
| 216 | 1708056 | ISHA SHARMA     | B.ARCH     | 4TH | MOTIVATIONAL ENHANCEMENT                        |
| 217 | 1708058 | MEHAK ARORA     | B.ARCH     | 4TH | MOTIVATIONAL ENHANCEMENT                        |





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## TECHNICAL CAMPUS ROPAR

|     |         |                              |              |     |                               |
|-----|---------|------------------------------|--------------|-----|-------------------------------|
| 218 | 1708059 | NANDINI SINGH                | B.ARCH       | 4TH | MOTIVATIONAL<br>ENHANCEMENT   |
| 219 | 1608409 | IMRAN FAROOQ                 | B.TECH CIVIL | 4TH | MOTIVATIONAL<br>ENHANCEMENT   |
| 220 | 1637793 | IMTIYAZ<br>MANZOOR           | B.TECH CIVIL | 4TH | MOTIVATIONAL<br>ENHANCEMENT   |
| 221 | 1608411 | JAHANGEER<br>AHMAD MIR       | B.TECH CIVIL | 4TH | MOTIVATIONAL<br>ENHANCEMENT   |
| 222 | 1608412 | JUNAID NAZIR                 | B.TECH CIVIL | 4TH | MOTIVATIONAL<br>ENHANCEMENT   |
| 223 | 1608413 | JUNAID RASHID<br>DAR         | B.TECH CIVIL | 4TH | MOTIVATIONAL<br>ENHANCEMENT   |
| 224 | 1637794 | KASHIF QAMAR                 | B.TECH CIVIL | 4TH | MOTIVATIONAL<br>ENHANCEMENT   |
| 225 | 1608414 | KHEOKA<br>YEPTHO             | B.TECH CIVIL | 4TH | MOTIVATIONAL<br>ENHANCEMENT   |
| 226 | 1637795 | KYSAR BASHIR                 | B.TECH CIVIL | 4TH | MOTIVATIONAL<br>ENHANCEMENT   |
| 227 | 1637796 | LATEEF MAJEED                | B.TECH CIVIL | 4TH | MOTIVATIONAL<br>ENHANCEMENT   |
| 228 | 1608415 | MALIK<br>MOHAMMAD            | B.TECH CIVIL | 4TH | MOTIVATIONAL<br>ENHANCEMENT   |
| 229 | 1637797 | MANZOOR<br>FAROOQ            | B.TECH CIVIL | 4TH | MOTIVATIONAL<br>ENHANCEMENT   |
| 230 | 1608416 | MIR ZAHID<br>AKBAR           | B.TECH CIVIL | 4TH | MOTIVATIONAL<br>ENHANCEMENT   |
| 231 | 1608418 | MITLESH<br>KUMAR<br>KUSHWAHA | B.TECH CIVIL | 4TH | MOTIVATIONAL<br>ENHANCEMENT   |
| 232 | 1509958 | Paras yadav                  | B.Arch       | 5TH | Physics Magic Of<br>Materials |
| 233 | 1509959 | Rajat Thapar                 | B.Arch       | 5TH | Physics Magic Of<br>Materials |
| 234 | 1509963 | Sandeep Kaur                 | B.Arch       | 5TH | Physics Magic Of<br>Materials |
| 235 | 1509969 | Slmrnjeet Kaur               | B.Arch       | 5TH | Physics Magic Of<br>Materials |
| 236 | 1509970 | Sivank Rastogi               | B.Arch       | 5TH | Physics Magic Of<br>Materials |
| 237 | 1509971 | Sonal Sharma                 | B.Arch       | 5TH | Physics Magic Of<br>Materials |
| 238 | 1509972 | Sumit singh Negi             | B.Arch       | 5TH | Physics Magic Of<br>Materials |
| 239 | 1608640 | Amandeep Raj<br>Aggarwal     | B.Arch       | 4TH | Physics Magic Of<br>Materials |
| 240 | 1608641 | Anshika Mittal               | B.Arch       | 4TH | Physics Magic Of<br>Materials |
| 241 | 1608642 | Bajinder Kumar               | B.Arch       | 4TH | Physics Magic Of              |

|     |         |                     |              |     | Materials                  |
|-----|---------|---------------------|--------------|-----|----------------------------|
| 242 | 1608644 | Digamber Singh      | B.Arch       | 4TH | Physics Magic Of Materials |
| 243 | 1608643 | Dharini Middha      | B.Arch       | 4TH | Physics Magic Of Materials |
| 244 | 1637810 | RAJENDRA SHAHU      | B.Tech CSE   | 4TH | Physics Magic Of Materials |
| 245 | 1608496 | RAJINDER KAUR       | B.Tech CSE   | 4TH | Physics Magic Of Materials |
| 246 | 1608498 | RANDHIR KUMAR       | B.Tech CSE   | 4TH | Physics Magic Of Materials |
| 247 | 1608500 | RITU BALA           | B.Tech CSE   | 4TH | Physics Magic Of Materials |
| 248 | 1608501 | SAHIL               | B.Tech CSE   | 4TH | Physics Magic Of Materials |
| 249 | 1608502 | SAMEER AHMAD BABA   | B.Tech CSE   | 4TH | Physics Magic Of Materials |
| 250 | 1608508 | SUMEET KUMAR        | B.Tech CSE   | 4TH | Physics Magic Of Materials |
| 251 | 1608419 | MOHIT CHOUDHARY     | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 252 | 1637798 | MUDASIR AHMAD PARAY | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 253 | 1608421 | MUKUL KUMAR         | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 254 | 1608422 | MUZAMIL YASEEM      | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 255 | 1608423 | OPINDERJEET SINGH   | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 256 | 1608424 | PARAMJEET SINGH     | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 257 | 1608428 | RAHUL KUMAR         | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 258 | 1637800 | RAMEEZ AKRAM        | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 259 | 1637811 | RASHID LATIF        | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 260 | 1608429 | RATAN KUMAR         | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 261 | 1637801 | RIZWAN AHMAD WANI   | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 262 | 1637803 | ROUF AHMAD BHAT     | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 263 | 1608431 | SAHIL MANKOTIA      | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 264 | 1608432 | SAMUEL LALNUNPUIA   | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 265 | 1608433 | SAQIB BASHIR        | B.TECH CIVIL | 4TH | Physics Magic Of           |

|     |         |                     |              |     | Materials                  |
|-----|---------|---------------------|--------------|-----|----------------------------|
| 266 | 1608434 | SHAH SUHAIB MUJTABA | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 267 | 1934521 | BHARTI SONI         | MCA          | 2ND | PROJECT PLANNING           |
| 268 | 1934519 | DEEPANSHU TANDOU    | MCA          | 2ND | PROJECT PLANNING           |
| 269 | 1906462 | JATIN GAUTAM        | MCA          | 2ND | PROJECT PLANNING           |
| 270 | 1906463 | JYOTI DEVI          | MCA          | 2ND | PROJECT PLANNING           |
| 271 | 1906464 | KIRANDEEP KAUR      | MCA          | 2ND | PROJECT PLANNING           |
| 272 | 1608645 | Gaurav Verma        | B.Arch       | 5TH | PROJECT PLANNING           |
| 273 | 1608646 | Geetanjali Sharma   | B.Arch       | 5TH | PROJECT PLANNING           |
| 274 | 1608647 | Mandhir Singh       | B.Arch       | 5TH | PROJECT PLANNING           |
| 275 | 1608648 | NITIN DOGRA         | B.Arch       | 5TH | PROJECT PLANNING           |
| 276 | 1608649 | Prachi Walia        | B.Arch       | 5TH | PROJECT PLANNING           |
| 277 | 1708138 | PRABHJEET SINGH     | B.TECH CSE   | 3RD | PROJECT PLANNING           |
| 278 | 1708139 | PRABHJOT KAUR       | B.TECH CSE   | 3RD | PROJECT PLANNING           |
| 279 | 1708141 | PRINCE RAWAT        | B.TECH CSE   | 3RD | PROJECT PLANNING           |
| 280 | 2005345 | MANDEEP KUMAR       | M.TECH CSE   | 1st | PROJECT PLANNING           |
| 281 | 2005346 | RIZWAN RASOOL       | M.TECH(CSE)  | 1st | PROJECT PLANNING           |
| 282 | 1906433 | REEMA SOOD          | MBA          | 2ND | PROJECT PLANNING           |
| 283 | 1906434 | SATKIRAT KAUR       | MBA          | 2ND | PROJECT PLANNING           |
| 284 | 1906435 | SHUBHAM             | MBA          | 2ND | PROJECT PLANNING           |
| 285 | 1934532 | SUKHDEEP KAUR       | MBA          | 2ND | PROJECT PLANNING           |
| 286 | 1906993 | DAMAN JOT KAUR      | MBA          | 2ND | PROJECT PLANNING           |
| 287 | 1906994 | farooz din shah     | MBA          | 2ND | PROJECT PLANNING           |
| 288 | 1906995 | HARPREET KAUR       | MBA          | 2ND | PROJECT PLANNING           |

Academic Year 2019-20

Activity organized Report

Date :22.10.2019

|                               |                                                                                                                                                                                                                                                                                                                          |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                       |
| Title of Activity             | CALIBERATION AND MEASUREMENT                                                                                                                                                                                                                                                                                             |
| Programme                     | B.TECH                                                                                                                                                                                                                                                                                                                   |
| Date of Commencement          | 16.7.2019                                                                                                                                                                                                                                                                                                                |
| Date of Completion            | 22.10.2019                                                                                                                                                                                                                                                                                                               |
| Place of activity             | C Block Seminar Hall                                                                                                                                                                                                                                                                                                     |
| No of participants Enrolled   | 16                                                                                                                                                                                                                                                                                                                       |
| No of participants completed  | 15                                                                                                                                                                                                                                                                                                                       |
| Course Coordinator and Expert | ONKAR SINGH                                                                                                                                                                                                                                                                                                              |
| Summary of activity           | The value added course for the odd Semester During the Academic Year 2019-20 was Successfully Organized .The Course On “ CALIBERATION AND MEASUREMENT” was covered .It Was aimed at various course students to learn how to do caliberation.A total of 16 students registered for the course and 15completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                          |

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 BINDRA

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# IET BHADDAL

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TECHNICAL  
CAMPUS  
ROPAR



## *Caliberation and Measurement Value Added Course*



**Commencement from:- 16/7/2021**

**Coordinator :- Onkar Singh**

**Organised by :-  
Department of  
Mechanical Engineering**

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Date : 16/7/2021

PRINCIPAL  
IET BHADDAL  
ROPAR

Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2021-22-.The details of value added Course is as follow

| S.no | Name of Value Added Course  | Class        | Contact Hrs | Date of Commencement | Expert      |
|------|-----------------------------|--------------|-------------|----------------------|-------------|
| 1    | CALIBRATION AND MEASUREMENT | B.TECH EE,ME | 30/45       | 16.7.2021            | ONKAR SINGH |
|      |                             |              |             |                      |             |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

Course co-ordinator



NET VAC ME/3/4

DATE 16/7/2021

### NOTICE

It is for the information of all students of - That **ME** department is conducting value added course entitled **-CALIBRATION AND MEASUREMENT** from **-16/7/2021**. The Course is scheduled for **—45 hrs** duration.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

Course Coordinator:

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BINDRA

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Head of Department

Cc : principal ( For Kind information please)  
Head Of all Departments ( For Information)  
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ALL the notice boards

Dept of MA  
2017-18

| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                 |      |                                            |      |       |      |      |      |       |        |        |        | 2019-20                |       |       |       |           |
|------------------------------------------|-----------------|------|--------------------------------------------|------|-------|------|------|------|-------|--------|--------|--------|------------------------|-------|-------|-------|-----------|
| DURATION 3 HRS/WEEK                      |                 |      | Name Of Course CALIBRATION AND MEASUREMENT |      |       |      |      |      |       |        |        |        | Course Duration 45 HRS |       |       |       |           |
| S.No                                     | Name            | 10/7 | 23/7                                       | 30/7 | 6-Aug | 13/8 | 20/8 | 27/8 | 3-Sep | 10-Sep | 17-Sep | 24-Sep | 1/10                   | 8-Oct | 15/10 | 22/10 | SIGNATURE |
| 1                                        | RAHUL RANGA     | 1    | 2                                          | 3    | AB    | AB   | 4    | 5    | AB    | 6      | 7      | 8      | AB                     | 9     | 10    | 11    | AB        |
| 2                                        | PREKASH KUMAR   | AB   | AB                                         | 1    | 2     | 3    | AB   | 4    | 5     | 6      | AB     | 7      | 8                      | 9     | AB    | 10    | AB        |
| 3                                        | ADYOT THAKUR    | 1    | 2                                          | 3    | 4     | 5    | 6    | AB   | AB    | AB     | 7      | 8      | 9                      | AB    | 10    | 11    | AB        |
| 4                                        | SHEKHAR         | 1    | 2                                          | 3    | 4     | 5    | 6    | 7    | AB    | 8      | 9      | 10     | AB                     | 11    | 12    | 13    | AB        |
| 5                                        | SHUJEET SINGH   | 1    | 2                                          | 3    | 4     | 5    | 6    | 7    | AB    | 8      | 9      | 10     | AB                     | 11    | 12    | 13    | AB        |
| 6                                        | VIKAS BATTI     | 1    | 2                                          | 3    | 4     | 5    | 6    | 7    | AB    | 8      | 9      | 10     | AB                     | 11    | 12    | 13    | AB        |
| 7                                        | WASEL NOUMAN    | 1    | 2                                          | 3    | 4     | 5    | 6    | 7    | AB    | 8      | 9      | 10     | AB                     | 11    | 12    | 13    | AB        |
| 8                                        | ESHWAR          | 1    | 2                                          | 3    | 4     | 5    | 6    | 7    | AB    | 8      | 9      | 10     | AB                     | 11    | 12    | 13    | AB        |
| 9                                        | CHITREEST SINGH | 1    | 2                                          | 3    | 4     | 5    | 6    | 7    | AB    | 8      | 9      | 10     | AB                     | 11    | 12    | 13    | AB        |
| 10                                       | AKSHIT JASWAL   | 1    | 2                                          | 3    | 4     | 5    | 6    | AB   | 7     | 8      | 9      | 10     | AB                     | 11    | 12    | 13    | AB        |
| 11                                       | CHITREEST KALUR | 1    | 2                                          | 3    | 4     | 5    | 6    | AB   | AB    | 8      | 9      | 10     | AB                     | 11    | 12    | 13    | AB        |
| 12                                       | MANVIR SINGH    | 1    | 2                                          | 3    | 4     | 5    | 6    | AB   | AB    | 8      | 9      | 10     | AB                     | 11    | 12    | 13    | AB        |
| 13                                       | RAHUL KUMAR     | 1    | 2                                          | 3    | 4     | 5    | 6    | AB   | AB    | 8      | 9      | 10     | AB                     | 11    | 12    | 13    | AB        |
| 14                                       | RAJAN BABU SAH  | 1    | 2                                          | 3    | 4     | 5    | 6    | AB   | AB    | 8      | 9      | 10     | AB                     | 11    | 12    | 13    | AB        |
| 15                                       | RAJAT KUMAR     | 1    | 2                                          | 3    | 4     | 5    | 6    | AB   | AB    | 8      | 9      | 10     | AB                     | 11    | 12    | 13    | AB        |
| 16                                       | SAHIL MINHAS    | 1    | 2                                          | 3    | 4     | 5    | 6    | AB   | AB    | 8      | 9      | 10     | AB                     | 11    | 12    | 13    | AB        |

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# CALIBRATION AND MEASUREMENT

## SYLLABUS

### OBJECTIVE

Calibration is done to assist ensure accurate measurements. Increased safety, creativity, and profitability as well as better adherence to environmental and other regulations are some advantages of calibration.

### Standards of measurement, units of measurement.

### Errors in measurement (8 Hours)

Types of errors, random errors, systematic errors, constant errors, scale errors, reading errors, compound errors etc. Output flatness, straightness, roundness, parallelism, cylindricity, perpendicularity, angularity, concentricity errors that can be usually eliminated, Errors that cannot be eliminated

### Types of measurement and measuring instruments (12 Hours)

Linear measurement: Steel rule, Calipers, Vernier Calipers, Micrometers, Height gauge, Slip gauge. Angular and taper measurement: Protectors, Engineering square, Adjustable bevel, Bevel protectors, Dividing head, Sine bar, Sine centers, Angle gauge, Clinometers, Autocollimators, Taper gauges. Surface measurement: Spirit level, Straight edge, Surface gauge, Optical flat, Interferometer, Surface plate. Measurement of screw threads and gears. Comparators: mechanical, electrical, optical, pneumatic, miscellaneous measurements

### Limits, Fits and Gauges (8 Hours)

Introduction, Terminology, Interchangeability, Selective assembly systems of limits and fits: Types of fits, interference, transition and clearance fits, basis of fits: Hole and shaft basis system

### Metrology of screw threads (6 Hours)

Screw thread terminology, Classification of threads, Errors in threads, Effect of errors, Measuring various elements of threads, Application of thread gauges.

### Gear measurement and testing (8 Hours)

Introduction, Gear tooth terminology, Involute curve, Sources of errors in manufacturing gears, Gear measurement, Tooth thickness measurement, Tooth profile measurement, Gear pitch measurement, Allowable errors in gears, Composite method of gear checking, General gear tests, Rolling tests.

### References

Rajput, R.K., "Mechanical Measurement and Instrumentation (including Metrology and Control System)", S.K. Kataria and Sons.

Jain, R. K., "Engineering Metrology", Khanna Publishers

Considine, D.M., "Process Instruments and Controls Handbook", McGraw-Hill, New York, Third Edition, 1985.

Wolf, S. and Smith, R.F.M., "Students Reference Manual for Electronic Instrumentation Laboratories",  
Prentice Hall, Englewood Cliffs, New Jersey, 1990.

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2019-20**

| S.NO | ROLL NO | NAME           | BRANCH    | YEAR | VALUE ADDED COURSE           |
|------|---------|----------------|-----------|------|------------------------------|
| 1    | 1906441 | NIKHIL BANGA   | B.tech ME | 1st  | CALIBERATION AND MEASUREMENT |
| 2    | 1906442 | PRERNA SHARMA  | B.tech ME | 1st  | CALIBERATION AND MEASUREMENT |
| 3    | 1934518 | ROHIT THAKUR   | B.tech ME | 1st  | CALIBERATION AND MEASUREMENT |
| 4    | 1906444 | SHEKHAR        | B.tech ME | 1st  | CALIBERATION AND MEASUREMENT |
| 5    | 1906445 | SHIVJEET SINGH | B.tech ME | 1st  | CALIBERATION AND MEASUREMENT |
| 6    | 1934517 | SIKAS BATTIA   | B.tech ME | 1st  | CALIBERATION AND MEASUREMENT |
| 7    | 1906447 | WAEEL NOMAN    | B.tech ME | 1st  | CALIBERATION AND MEASUREMENT |
| 8    | 1906422 | ESHWAR         | B.tech EE | 1st  | CALIBERATION AND MEASUREMENT |
| 9    | 1906423 | GURPREET SINGH | B.tech EE | 1st  | CALIBERATION AND MEASUREMENT |
| 10   | 1708164 | AKSHIT JASWAL  | B.Tech EE | 3rd  | CALIBERATION AND MEASUREMENT |
| 11   | 1708166 | GURPREET KAUR  | B.Tech EE | 3rd  | CALIBERATION AND MEASUREMENT |
| 12   | 1708167 | MANVIR SINGH   | B.Tech EE | 3rd  | CALIBERATION AND MEASUREMENT |
| 13   | 1708168 | RAHUL KUMAR    | B.Tech EE | 3rd  | CALIBERATION AND MEASUREMENT |
| 14   | 1708169 | RAJAN BABU SAH | B.Tech EE | 3rd  | CALIBERATION AND             |

|    |         |              |           |     |                                    |
|----|---------|--------------|-----------|-----|------------------------------------|
|    |         |              |           |     | MEASUREMENT                        |
| 15 | 1708170 | RAJAT KUMAR  | B.Tech EE | 3rd | CALIBERATION<br>AND<br>MEASUREMENT |
| 16 | 1708171 | SAHIL MINHAS | B.Tech EE | 3rd | CALIBERATION<br>AND<br>MEASUREMENT |

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Serial no -----

## *Certificate of Participation*

This is to certify that \_\_\_\_\_ of Roll No. \_\_\_\_\_ Branch \_\_\_\_\_ Class \_\_\_\_\_ has completed Value Added Course Titled \_\_\_\_\_  
Course held from \_\_\_\_\_ to \_\_\_\_\_,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

## Academic Year 2019-20

### Activity organized Report

Date :20.04.2020

|                                      |                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name of activity</b>              | Value Added Course                                                                                                                                                                                                                                                                                                 |
| <b>Title of Activity</b>             | ACADEMIC RESEARCH AND REPORTWRITING                                                                                                                                                                                                                                                                                |
| <b>Programme</b>                     | ENGG,MBA,MTECH                                                                                                                                                                                                                                                                                                     |
| <b>Date of Commencement</b>          | 13/1/2020                                                                                                                                                                                                                                                                                                          |
| <b>Date of Completion</b>            | 20/4/2020                                                                                                                                                                                                                                                                                                          |
| <b>Place of activity</b>             | C BLOCK SEMINAR HALL                                                                                                                                                                                                                                                                                               |
| <b>No of participants Enrolled</b>   | 29                                                                                                                                                                                                                                                                                                                 |
| <b>No of participants completed</b>  | 26                                                                                                                                                                                                                                                                                                                 |
| <b>Course Coordinator and Expert</b> | DR. VIDYA DEVI                                                                                                                                                                                                                                                                                                     |
| <b>Summary of activity</b>           | The value added course for the Even Semester During the Academic Year 2019-20 was Successfully Organized .The Course On “ ACADEMIC RESEARCH AND REPORTWRITING” was covered .It Was aimed at various course students to write report .A total of 29 students registered for the course and 26 completed the Course. |
|                                      |                                                                                                                                                                                                                                                                                                                    |

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## Research & Report Writing



### Writing a Research Report



Value  
added  
course

**COMMENCEMENT  
FROM:- 13/1/2020**

Coordinator:-

Dr. Vidya

Department of  
Applied Science

### Report Writing

"Report writing is the art of communicating information that has been acquired through research or investigation in a formal, structured manner. It involves synthesizing information, drawing conclusions, and making recommendations based on the findings." - American Management Association



Identify



Research



Organise

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Date : 13/1/2020

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ROPAR

Date :13-1-2020

Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2019-20-.The details of value added Course is as follow

| S.no | Name of Value Added Course           | Class            | Contact Hrs | Date of Commencement | Expert   |
|------|--------------------------------------|------------------|-------------|----------------------|----------|
| 1    | ACADEMIC RESEARCH AND REPORT WRITING | BTECH, MTECH,MBA | 30/45       | 13/1/2020            | DR.VIDYA |
|      |                                      |                  |             |                      |          |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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Thanks and Regards  
Course co-ordinator





# IET BHADDAL

Campus: Bhaddal, PO Mianpur, Distt. Ropar, Punjab-140108 (India)  
UGC approved (2f & 12B) | Affiliated to IKG-PTU (Jalandhar)

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ROPAR

-IET/VAC/AS/075

DATE 13/1/2020

## NOTICE

It is for the information of all students of - That **AS-** department is conducting value added course entitled **—ACADEMIC RESEARCH AND REPORTWRITING** from **—13/1/2020**. The Course is scheduled for **-30 hrs** duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

*Neha T. Gaur*  
Course coordinator:

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Head of Department

Cc : principal ( For Kind information please)  
Head Of all Departments ( For Information)  
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ALL the notice boards





Dept of App Sciences  
2019-20

| DURATION 3HRS/V |                          | ATTENDANCE SHEET FOR VALUE ADDED COURSES |      |      |                                                    |     |      |      |      |      |     |      |      |    |                       |    |  |  |             |
|-----------------|--------------------------|------------------------------------------|------|------|----------------------------------------------------|-----|------|------|------|------|-----|------|------|----|-----------------------|----|--|--|-------------|
| S.no            | Name                     | 13/1                                     | 20/1 | 27/1 | Name Of Course ACADEMIC RESEARCH AND REPORTWRITING |     |      |      |      |      |     |      |      |    | Course Duration 45HRS |    |  |  | SIGNATURE   |
|                 |                          | 3/2                                      | 10/2 | 17/2 | 24/2                                               | 3/3 | 10/3 | 17/3 | 24/3 | 31/3 | 6/4 | 13/4 | 20/4 |    |                       |    |  |  |             |
| 1               | DEEPAK                   | 1                                        | 2    | ab   | 3                                                  | AB  | 4    | 5    | 6    | AB   | AB  | 7    | 8    | 9  | AB                    | 10 |  |  | Deepak      |
| 2               | DEEPAK KUMAR             | AB                                       | 1    | 2    | 3                                                  | 4   | AB   | AB   | 5    | 6    | 7   | 8    | 9    | 10 | 11                    | AB |  |  | Deepak      |
| 3               | DEPINDER KAUR            | 1                                        | AB   | 3    | AB                                                 | 4   | 5    | 6    | AB   | 7    | 8   | AB   | 9    | AB | 10                    | 11 |  |  | Depinder K  |
| 4               | FARHAN NABI              | 1                                        | 2    | 3    | 4                                                  | 5   | 6    | 7    | 8    | AB   | 9   | 10   | AB   | AB | 11                    | 12 |  |  | F Nabi      |
| 5               | GUNJAN KAURA             | 1                                        | 2    | ab   | 3                                                  | AB  | 4    | 5    | 6    | AB   | AB  | 7    | 8    | 9  | AB                    | 10 |  |  | Gunjan      |
| 6               | HEMANT KUMAR             | AB                                       | 1    | 2    | 3                                                  | 4   | AB   | AB   | 5    | 6    | 7   | 8    | 9    | 10 | 11                    | AB |  |  | Hemant      |
| 7               | MANISH KUMAR             | 1                                        | AB   | 3    | AB                                                 | 4   | 5    | 6    | AB   | 7    | 8   | AB   | 9    | AB | 10                    | 11 |  |  | Manish      |
| 8               | MANISH SAH               | 1                                        | 2    | 3    | 4                                                  | 5   | 6    | 7    | 8    | AB   | 9   | 10   | AB   | AB | 11                    | 12 |  |  | Manish      |
| 9               | NAND KISHOR              | 1                                        | AB   | 3    | AB                                                 | 4   | 5    | 6    | AB   | 7    | 8   | AB   | 9    | AB | 10                    | 11 |  |  | Nand        |
| 10              | AMIT KUMAR               | 1                                        | 2    | 3    | 4                                                  | 5   | 6    | 7    | 8    | AB   | 9   | 10   | AB   | AB | 11                    | 12 |  |  | Amit        |
| 11              | CHIRAG SHARMA            | 1                                        | 2    | ab   | 3                                                  | AB  | 4    | 5    | 6    | AB   | AB  | 7    | 8    | 9  | AB                    | 10 |  |  | Chirag      |
| 12              | HAPPY                    | AB                                       | 1    | 2    | 3                                                  | 4   | AB   | AB   | 5    | 6    | 7   | 8    | 9    | 10 | 11                    | AB |  |  | Happy       |
| 13              | HARBHAJAN SINGH          | 1                                        | 2    | ab   | 3                                                  | AB  | 4    | 5    | 6    | AB   | AB  | 7    | 8    | 9  | AB                    | 10 |  |  | Harbhajan   |
| 14              | ARSHEED AHMAD KHAN GOJER | AB                                       | 1    | 2    | 3                                                  | 4   | AB   | AB   | 5    | 6    | 7   | 8    | 9    | 10 | 11                    | AB |  |  | Arsheed     |
| 15              | ASIA MANZOOR             | 1                                        | AB   | 3    | AB                                                 | 4   | 5    | 6    | AB   | 7    | 8   | AB   | 9    | AB | 10                    | 11 |  |  | Asia        |
| 16              | DANISH RASHIED           | 1                                        | 2    | 3    | 4                                                  | 5   | 6    | 7    | 8    | AB   | 9   | 10   | AB   | AB | 11                    | 12 |  |  | Danish      |
| 17              | JAUJID MUSHTAQ           | 1                                        | 2    | ab   | 3                                                  | AB  | 4    | 5    | 6    | AB   | AB  | 7    | 8    | 9  | AB                    | 10 |  |  | Jaujid      |
| 18              | JEHANGIR RASHID          | AB                                       | 1    | 2    | 3                                                  | 4   | AB   | AB   | 5    | 6    | 7   | 8    | 9    | 10 | 11                    | AB |  |  | Jehangir    |
| 19              | AJAY KUMAR               | 1                                        | AB   | 3    | AB                                                 | 4   | 5    | 6    | AB   | 7    | 8   | AB   | 9    | AB | 10                    | 11 |  |  | Ajay Kumar  |
| 20              | AMANPREET KAUR           | 1                                        | 2    | 3    | 4                                                  | 5   | 6    | 7    | 8    | AB   | 9   | 10   | AB   | AB | 11                    | 12 |  |  | Amanpreet   |
| 21              | AMRITPAL KAUR            | 1                                        | 2    | ab   | 3                                                  | AB  | 4    | 5    | 6    | AB   | AB  | 7    | 8    | 9  | AB                    | 10 |  |  | Amritpal    |
| 22              | AMRTA RANI               | AB                                       | 1    | 2    | 3                                                  | 4   | AB   | AB   | 5    | 6    | 7   | 8    | 9    | 10 | 11                    | AB |  |  | Amrita      |
| 23              | AQIB FAROOQ              | 1                                        | AB   | 3    | AB                                                 | 4   | 5    | 6    | AB   | 7    | 8   | AB   | 9    | AB | 10                    | 11 |  |  | Aqib        |
| 24              | DAMAN JOT KAUR           | 1                                        | 2    | 3    | 4                                                  | 5   | 6    | 7    | 8    | AB   | 9   | 10   | AB   | AB | 11                    | 12 |  |  | Daman Jot K |
| 25              | farooz din shah          | 1                                        | 2    | ab   | 3                                                  | AB  | 4    | 5    | 6    | AB   | AB  | 7    | 8    | 9  | AB                    | 10 |  |  | Farooz      |
| 26              | HARPREET KAUR            | AB                                       | 1    | 2    | 3                                                  | 4   | AB   | AB   | 5    | 6    | 7   | 8    | 9    | 10 | 11                    | AB |  |  | Harpreet    |
| 27              | KAMALJEET KAUR           | 1                                        | AB   | 3    | AB                                                 | 4   | 5    | 6    | AB   | 7    | 8   | AB   | 9    | AB | 10                    | 11 |  |  | Kamaljeet   |
| 28              | KIRANJEET KAUR           | 1                                        | 2    | 3    | 4                                                  | 5   | 6    | 7    | 8    | AB   | 9   | 10   | AB   | AB | 11                    | 12 |  |  | Kiranjeet   |
| 29              | NEHA BHATT               | 1                                        | AB   | 3    | AB                                                 | 4   | 5    | 6    | AB   | 7    | 8   | AB   | 9    | AB | 10                    | 11 |  |  | Neha        |

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# ACADEMIC RESEARCH AND REPORT WRITING

## MODULE 1

Importance of report writing in academics and research. Various kinds of academic and research activities. Necessity of report writing for achievement of academic and research goals. Various kinds of reports / presentations. Characteristics of academic and research reports / presentations. Conclusion

## MODULE 2

Types of research papers, Structure of research papers, Research paper formats, Abstract writing, Methodology, Results and discussions, Different formats for referencing, Ways of communicating a research paper.

## MODULE 3:

Structure of a thesis, Scope of the work, Literature review, Experimental / computational details, Preliminary studies, Results and Discussions, Figures and Tables preparation, Conclusions and future works, Bibliography, Appendices,

## MODULE 4:

Various word processors, e.g, MS Word, Libre-office, Latex etc.  
value added courses department of management making effective presentations using Power Point and Beamer, Uses of plagiarism detection tools. Writing research proposals, Writing project proposals, Lecture notes, Progress reports, Utilization reports, Scientific reports etc

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2019-20**

| S.NO | ROLL NO | NAME          | BRANCH     | YEAR | VALUE ADDED COURSE                  |
|------|---------|---------------|------------|------|-------------------------------------|
| 1    | 1708115 | DEEPAK        | B.Tech CSE | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 2    | 1708116 | DEEPAK KUMAR  | B.Tech CSE | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 3    | 1708117 | DEPINDER KAUR | B.Tech CSE | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 4    | 1708119 | FARHAN NABI   | B.Tech CSE | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 5    | 1708120 | GUNJAN KAURA  | B.Tech CSE | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 6    | 1708121 | HEMANT KUMAR  | B.Tech CSE | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 7    | 1708126 | MANISH KUMAR  | B.Tech CSE | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 8    | 1708127 | MANISH SAH    | B.Tech CSE | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 9    | 1708131 | NAND KISHOR   | B.Tech CSE | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 10   | 1708193 | AMIT KUMAR    | B.Tech ME  | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 11   | 1708196 | CHIRAG SHARMA | B.Tech ME  | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 12   | 1708197 | HAPPY         | B.Tech ME  | 3rd  | ACADEMIC RESEARCH AND REPORTWRITING |
| 13   | 1708198 | HARBHAJAN     | B.Tech ME  | 3rd  | ACADEMIC                            |



|    |         |                          |           |     |                                     |
|----|---------|--------------------------|-----------|-----|-------------------------------------|
|    |         | SINGH                    |           |     | RESEARCH AND REPORTWRITING          |
| 14 | 1807035 | ARSHEED AHMAD KHAN GOJER | M.Tech EE | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 15 | 1807036 | ASIA MANZOOR             | M.Tech EE | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 16 | 1807039 | DANISH RASHIED           | M.Tech EE | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 17 | 1807042 | JAU AID MUSHTAQ          | M.Tech EE | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 18 | 1807043 | JEHANGIR RASHID          | M.Tech EE | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 19 | 1806989 | AJAY KUMAR               | MBA       | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 20 | 1806990 | AMANPREET KAUR           | MBA       | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 21 | 1834618 | AMRITPAL KAUR            | MBA       | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 22 | 1806991 | AMRTA RANI               | MBA       | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 23 | 1806992 | AQIB FAROOQ              | MBA       | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 24 | 1806993 | DAMAN JOT KAUR           | MBA       | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 25 | 1806994 | farooz din shah          | MBA       | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 26 | 1806995 | HARPREET KAUR            | MBA       | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 27 | 1806997 | KAMALJEET KAUR           | MBA       | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 28 | 1806999 | KIRANJEET KAUR           | MBA       | 2nd | ACADEMIC RESEARCH AND REPORTWRITING |
| 29 | 1807000 | NEHA BHATT               | MBA       | 2nd | ACADEMIC                            |

|  |  |  |  |  |                               |
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|  |  |  |  |  | RESEARCH AND<br>REPORTWRITING |
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# IETBHADDAL

TECHNICAL  
CAMPUS  
ROPAR

Serial no -----

## *Certificate of Participation*

This is to certify that \_\_\_\_\_ of Roll No. \_\_\_\_\_ Branch \_\_\_\_\_ Class \_\_\_\_\_ has completed Value Added Course Titled \_\_\_\_\_  
Course held from \_\_\_\_\_ to \_\_\_\_\_,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

Academic Year 2019-20

Activity organized Report

Date : 17.04.2020

|                               |                                                                                                                                                                                                                                                                                                          |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                       |
| Title of Activity             | BASICS OF IOT                                                                                                                                                                                                                                                                                            |
| Programme                     | B.Tech, MCA,MBA                                                                                                                                                                                                                                                                                          |
| Date of Commencement          | 10.01.2020                                                                                                                                                                                                                                                                                               |
| Date of Completion            | 17.04.2020                                                                                                                                                                                                                                                                                               |
| Place of activity             | B220                                                                                                                                                                                                                                                                                                     |
| No of participants Enrolled   | 17                                                                                                                                                                                                                                                                                                       |
| No of participants completed  | 15                                                                                                                                                                                                                                                                                                       |
| Course Coordinator and Expert | SAMRITI                                                                                                                                                                                                                                                                                                  |
| Summary of activity           | The value added course for the Even Semester During the Academic Year 2019-20 was Successfully Organized .The Course On “BASICS OF IOT” was covered .It Was aimed at various course students to get information about IOT .A total of 17 students registered for the course and 15 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                          |

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## Value Added Course



SHUBLAKSHAN SINGH BINDRA

IET/DEPT- MCA, 142

Date: 10/1/2020

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ROPAR

**Permission For Conducting value added course and allocate faculty member for same**

It is to bring to your kind notice that following value added course is finalized For academic Year 2021-22. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class               | Contact Hrs | Date of Commencement | Expert  |
|------|----------------------------|---------------------|-------------|----------------------|---------|
| 1    | BASICS OF IOT              | B.tech, MCA, M.tech | 30/45       | 10.1.2020            | SAMRITI |
|      |                            |                     |             |                      |         |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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*Samriti*  
Thanks and Regards  
Course co-ordinator





# IET BHADDAL

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TECHNICAL  
CAMPUS  
ROPAR

IET/NAC/ANCA/015

DATE 10/1/2020

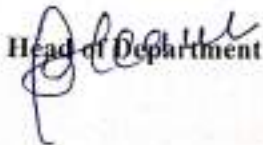
## NOTICE

It is for the information of all students of - That department is conducting value added course entitled - **BASICS OF IOT** from -10/1/2020. The Course is scheduled for -30 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

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Head of Department

Cc: principal ( For Kind information please)  
Head Of all Departments ( For Information)  
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ALL the notice boards





Dept of CCE  
2019-20

|                     |                 | ATTENDANCE SHEET FOR VALUE ADDED COURSES |       |       |       |       |      |      |      |       |      |      |      |                       |        |      | 2019-20         |  |
|---------------------|-----------------|------------------------------------------|-------|-------|-------|-------|------|------|------|-------|------|------|------|-----------------------|--------|------|-----------------|--|
| DURATION 3 HRS/WEEK |                 | Name Of Course BASICS OF IOT             |       |       |       |       |      |      |      |       |      |      |      | Course Duration 45HRS |        |      | SIGNATURE       |  |
| S.no                | Name            | 10/1/                                    | 17/01 | 24/01 | 31/01 | 7-Feb | 14/2 | 21/2 | 28/2 | 6-Mar | 13/3 | 20/3 | 27/3 | 3-Apr                 | 10-Apr | 17/4 |                 |  |
| 1                   | ABHJEET SINGH   | 1                                        | 2     | ab    | 3     | AB    | 4    | 5    | 6    | AB    | AB   | 7    | 8    | 9                     | AB     | 10   | Abhjeet Singh   |  |
| 2                   | ABHISHEK THAKUR | AB                                       | 1     | 2     | 3     | 4     | AB   | AB   | 5    | 6     | 7    | 8    | 9    | 10                    | 11     | AB   | Abhishek Thakur |  |
| 3                   | AKASHDEEP SINGH | 1                                        | AB    | 3     | AB    | 4     | 5    | 6    | AB   | 7     | 8    | AB   | 9    | AB                    | 10     | 11   | Akashdeep Singh |  |
| 4                   | AKRITI          | 1                                        | 2     | 3     | 4     | 5     | 6    | 7    | 8    | AB    | 9    | 10   | AB   | AB                    | 11     | 12   | Akriti          |  |
| 5                   | AMIT KUMAR      | 1                                        | 2     | ab    | 3     | AB    | 4    | 5    | 6    | AB    | AB   | 7    | 8    | 9                     | AB     | 10   | Amit Kumar      |  |
| 6                   | AMRINDER SINGH  | AB                                       | 1     | 2     | 3     | 4     | AB   | AB   | 5    | 6     | 7    | 8    | 9    | 10                    | 11     | AB   | Amrinder Singh  |  |
| 7                   | ANKIT KAUL      | 1                                        | AB    | 3     | AB    | 4     | 5    | 6    | AB   | 7     | 8    | AB   | 9    | AB                    | 10     | 11   | Ankit Kaul      |  |
| 8                   | ANOOB KUMAR     | 1                                        | 2     | 3     | 4     | 5     | 6    | 7    | 8    | AB    | 9    | 10   | AB   | AB                    | 11     | 12   | Anoop Kumar     |  |
| 9                   | ATUL KUMAR      | 1                                        | AB    | 3     | AB    | 4     | 5    | 6    | AB   | 7     | 8    | AB   | 9    | AB                    | 10     | 11   | Atul Kumar      |  |
| 10                  | DALBIR SINGH    | 1                                        | 2     | 3     | 4     | 5     | 6    | 7    | 8    | AB    | 9    | 10   | AB   | AB                    | 11     | 12   | Dalbir Singh    |  |
| 11                  | BHARTI SONI     | 1                                        | 2     | ab    | 3     | AB    | 4    | 5    | 6    | AB    | AB   | 7    | 8    | 9                     | AB     | 10   | Bharti Soni     |  |
| 12                  | DEEPANSHU       | AB                                       | 1     | 2     | 3     | 4     | AB   | AB   | 5    | 6     | 7    | 8    | 9    | 10                    | 11     | AB   | Deepanshu       |  |
| 13                  | JATIN GAUTAM    | 1                                        | 2     | ab    | 3     | AB    | 4    | 5    | 6    | AB    | AB   | 7    | 8    | 9                     | AB     | 10   | Jatin Gautam    |  |
| 14                  | JYOTI DEVI      | AB                                       | 1     | 2     | 3     | 4     | AB   | AB   | 5    | 6     | 7    | 8    | 9    | 10                    | 11     | AB   | Jyoti Devi      |  |
| 15                  | KIRANDEEP       | 1                                        | AB    | 3     | AB    | 4     | 5    | 6    | AB   | 7     | 8    | AB   | 9    | AB                    | 10     | 11   | Kirandeep       |  |
| 16                  | KIRANPREET      | 1                                        | 2     | 3     | 4     | 5     | 6    | 7    | 8    | AB    | 9    | 10   | AB   | AB                    | 11     | 12   | Kiranpreet      |  |
| 17                  | MANPREET        | 1                                        | 2     | ab    | 3     | AB    | 4    | 5    | 6    | AB    | AB   | 7    | 8    | 9                     | AB     | 10   | Manpreet        |  |

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# BASICS OF IOT

## SYLLABUS

### Course Outcomes:

1. After completing the course, students will be able to: 1. Recognize the different terms, concepts, and architecture of Internet of Things systems.
2. When designing the Internet of Things, use sensors and actuators.
3. Recognize and use a variety of protocols while designing Internet of Things systems.
4. Make use of several IoT data analytics and storage strategies.
5. Recognize the different IoT applications
6. Recognize APIs to link IoT-related

### UNIT-I

Fundamentals of IoT: Introduction, Definitions & Characteristics of IoT, IoT Architectures, Physical & Logical Design of IoT, Enabling Technologies in IoT, History of IoT, About Things in IoT, The Identifiers in IoT, About the Internet in IoT, IoT frameworks, IoT and M2M.

### UNIT-II

Sensors Networks : Definition, Types of Sensors, Types of Actuators, Examples and Working, IoT Development Boards: Arduino IDE and Board Types, RaspberriPi Development Kit, RFID Principles and components, Wireless Sensor Networks: History and Context, The node, Connecting nodes, Networking Nodes, WSN and IoT.

### UNIT-III

Wireless Technologies for IoT: WPAN Technologies for IoT: IEEE 802.15.4, Zigbee, HART, NFC, Z-Wave, BLE, Bacnet, Modbus.  
IP Based Protocols for IoT IPv6, 6LowPAN, RPL, REST, AMPQ, CoAP, MQTT.  
Edge connectivity and protocols

### UNIT-IV

Data Handling& Analytics: Introduction, Bigdata, Types of data, Characteristics of Big data, Data handling Technologies, Flow of data, Data acquisition, Data Storage, Introduction to Hadoop. Introduction to data Analytics, Types of Data analytics, Local Analytics, Cloud analytics and applications

### UNIT-V

Applications of IoT: Home Automation, Smart Cities, Energy, Retail Management, Logistics, Agriculture, Health and Lifestyle, Industrial IoT, Legal challenges, IoT design Ethics, IoT in Environmental Protection.

### Text Books:

1. HakimaChaouchi, — “The Internet of Things Connecting Objects to the Web” ISBN : 978-1- 84821-140-7, Wiley Publications
2. Olivier Hersent, David Boswarthick, and Omar Elloumi, — “The Internet of Things: Key Applications and Protocols”, WileyPublications
3. Vijay Madisetti and ArshdeepBahga, — “Internet of Things (A Hands-on-Approach)”, 1st Edition, VPT, 2014.

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4. J. Biron and J. Follett, "Foundational Elements of an IoT Solution", O'Reilly Media, 2016.

5. Keysight Technologies, "The Internet of Things: Enabling Technologies and Solutions for Design and Test", Application Note, 2016.

#### References

1. Daniel Minoli, — "Building the Internet of Things with IPv6 and MIPv6: The Evolving World of M2M Communications", ISBN: 978-1-118-47347-4, Wiley Publications

2. Pethuru Raj and Anupama C. Raman, "The Internet of Things: Enabling Technologies, Platforms, and Use Cases", CRC Press

3. [https://onlinecourses.nptel.ac.in/noc17\\_cs22/course](https://onlinecourses.nptel.ac.in/noc17_cs22/course)

4. [http://www.cse.wustl.edu/~jain/cse570-15/ftp/iot\\_prot/index.html](http://www.cse.wustl.edu/~jain/cse570-15/ftp/iot_prot/index.html)

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2019-20**

| S.NO | ROLL NO | NAME             | BRANCH     | YEAR | VALUE ADDED COURSE |
|------|---------|------------------|------------|------|--------------------|
| 1    | 1806944 | ABHIJEET SINGH   | B.TECH CSE | 4th  | BASICS OF IOT      |
| 2    | 1806945 | ABHISHEK THAKUR  | B.TECH CSE | 4th  | BASICS OF IOT      |
| 3    | 1806946 | AKASHDEEP SINGH  | B.TECH CSE | 4th  | BASICS OF IOT      |
| 4    | 1806947 | AKRITI           | B.TECH CSE | 4th  | BASICS OF IOT      |
| 5    | 1806949 | AMIT KUMAR       | B.TECH CSE | 4th  | BASICS OF IOT      |
| 6    | 1806950 | AMRINDER SINGH   | B.TECH CSE | 4th  | BASICS OF IOT      |
| 7    | 1806951 | ANKIT KAUL       | B.TECH CSE | 4th  | BASICS OF IOT      |
| 8    | 1806952 | ANOOB KUMAR      | B.TECH CSE | 4th  | BASICS OF IOT      |
| 9    | 1806955 | ATUL KUMAR       | B.TECH CSE | 4th  | BASICS OF IOT      |
| 10   | 1806957 | DALBIR SINGH     | B.TECH CSE | 4th  | BASICS OF IOT      |
| 11   | 1934521 | BHARTI SONI      | MCA        | 1st  | BASICS OF IOT      |
| 12   | 1934519 | DEEPANSHU TANDOU | MCA        | 1st  | BASICS OF IOT      |
| 13   | 1906462 | JATIN GAUTAM     | MCA        | 1st  | BASICS OF IOT      |
| 14   | 1906463 | JYOTI DEVI       | MCA        | 1st  | BASICS OF IOT      |
| 15   | 1906464 | KIRANDEEP KAUR   | MCA        | 1st  | BASICS OF IOT      |
| 16   | 1906465 | KIRANPREET KAUR  | MCA        | 1st  | BASICS OF IOT      |
| 17   | 1906466 | MANPREET KAUR    | MCA        | 1st  | BASICS OF IOT      |

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# IETBHADDAL

TECHNICAL  
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OPAR

Serial no –

## *Certificate of Participation*

This is to certify that of Roll No. Branch Class has completed Value Added Course Titled

Course held from to ,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**



## Academic Year 2019-20

### Activity organized Report

Date : 23/04/2020

|                               |                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                              |
| Title of Activity             | Physics- Magic of Materials                                                                                                                                                                                                                                                                                                     |
| Programme                     | BARCH/MBA/BTECH/MCA                                                                                                                                                                                                                                                                                                             |
| Date of Commencement          | 16/1/2020                                                                                                                                                                                                                                                                                                                       |
| Date of Completion            | 23/04/2020                                                                                                                                                                                                                                                                                                                      |
| Place of activity             | C BLOCK SEMINAR HALL                                                                                                                                                                                                                                                                                                            |
| No of participants Enrolled   | 35                                                                                                                                                                                                                                                                                                                              |
| No of participants completed  | 29                                                                                                                                                                                                                                                                                                                              |
| Course Coordinator and Expert | Vishal arora                                                                                                                                                                                                                                                                                                                    |
| Summary of activity           | The value added course for the Even Semester During the Academic Year 2019-20 was Successfully Organized .The Course On “PHYSICS OF MAGIC MATERIALS ” was covered .It Was aimed at various course students to get knowledge of various materials .A total of 35 students registered for the course and 29 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                                 |

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## Physics :- Magic of Materials

Value Added Course

Commencement from  
16/01/2020

Coordinator:-  
Vishal Arora

Organised by:-

Department of  
Applied Science  
Bhaddal

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IET/DEPT-AS--1008

Date: 18/1/2020

PRINCIPAL  
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Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2019-20. The details of value added Course is as follow

| S.no | Name of Value Added Course  | Class               | Contact Hrs | Date of Commencement | Expert       |
|------|-----------------------------|---------------------|-------------|----------------------|--------------|
| 1    | Physics- Magic of Materials | BARCH/MBA/BTECH/MCA | 30/45       | 16/1/2020            | Vishal Arora |
|      |                             |                     |             |                      |              |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

Course Co-ordinator

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)







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TECHNICAL  
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IET VACAS/008

DATE 16/1/2020

## NOTICE

It is for the information of all students of - That **AS** department is conducting value added course entitled -Physics- Magic of Materials from -16/1/2020. The Course is scheduled for - 45hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

Course co-ordinator:

Head of Department

Cc : principal ( For Kind information please)

Head Of all Departments ( For Information)

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| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                        |                                            |      |      |     |      |      |      |     |      |      |      |     |                    |      |      |              | Dept of A.P.P.S. 2019-20 |  |
|------------------------------------------|------------------------|--------------------------------------------|------|------|-----|------|------|------|-----|------|------|------|-----|--------------------|------|------|--------------|--------------------------|--|
| DURATION 3HR                             |                        | Name Of Course Physics- Magic of Materials |      |      |     |      |      |      |     |      |      |      |     | Course Duration 45 |      |      |              | SIGNATURE                |  |
| S.no                                     | Name                   | 16/1                                       | 23/1 | 30/1 | 6/2 | 13/2 | 20/2 | 27/2 | 6/3 | 13/3 | 20/3 | 27/3 | 2/4 | 9/4                | 16/4 | 23/4 |              |                          |  |
| 1                                        | Paras yadav            | 1                                          | 2    | ab   | 3   | AB   | 4    | 5    | 6   | AB   | AB   | 7    | 8   | 9                  | AB   | 10   | Paras Yadav  |                          |  |
| 2                                        | Rajat Thapar           | AB                                         | 1    | 2    | 3   | 4    | AB   | AB   | 5   | 6    | 7    | 8    | 9   | 10                 | 11   | AB   | Rajat Thapar |                          |  |
| 3                                        | Sandeep Kaur           | 1                                          | AB   | 3    | AB  | 4    | 5    | 6    | AB  | 7    | 8    | AB   | 9   | AB                 | 10   | 11   | Sandeep      |                          |  |
| 4                                        | Simranjeet Kaur        | 1                                          | 2    | 3    | 4   | 5    | 6    | 7    | 8   | AB   | 9    | 10   | AB  | AB                 | 11   | 12   | Simranjeet   |                          |  |
| 5                                        | Sivank Rastogi         | 1                                          | 2    | ab   | 3   | AB   | 4    | 5    | 6   | AB   | AB   | 7    | 8   | 9                  | AB   | 10   | Sivank       |                          |  |
| 6                                        | Sonal Sharma           | AB                                         | 1    | 2    | 3   | 4    | AB   | AB   | 5   | 6    | 7    | 8    | 9   | 10                 | 11   | AB   | Sonal        |                          |  |
| 7                                        | Sumit singh Negi       | 1                                          | AB   | 3    | AB  | 4    | 5    | 6    | AB  | 7    | 8    | AB   | 9   | AB                 | 10   | 11   | Sumit        |                          |  |
| 8                                        | Manandeep Raj Aggarwal | 1                                          | 2    | 3    | 4   | 5    | 6    | 7    | 8   | AB   | 9    | 10   | AB  | AB                 | 11   | 12   | Manandeep    |                          |  |
| 9                                        | Anshika Mittal         | 1                                          | AB   | 3    | AB  | 4    | 5    | 6    | AB  | 7    | 8    | AB   | 9   | AB                 | 10   | 11   | Anshika      |                          |  |
| 10                                       | Bajinder Kumar         | 1                                          | 2    | 3    | 4   | 5    | 6    | 7    | 8   | AB   | 9    | 10   | AB  | AB                 | 11   | 12   | Bajinder     |                          |  |
| 11                                       | Digamber Singh         | 1                                          | 2    | ab   | 3   | AB   | 4    | 5    | 6   | AB   | AB   | 7    | 8   | 9                  | AB   | 10   | Digamber     |                          |  |
| 12                                       | Dharini Middha         | AB                                         | 1    | 2    | 3   | 4    | AB   | AB   | 5   | 6    | 7    | 8    | 9   | 10                 | 11   | AB   | Dharini      |                          |  |
| 13                                       | RAJENDRA SHAHU         | 1                                          | 2    | ab   | 3   | AB   | 4    | 5    | 6   | AB   | AB   | 7    | 8   | 9                  | AB   | 10   | Rajendra     |                          |  |
| 14                                       | RAJINDER KAUR          | AB                                         | 1    | 2    | 3   | 4    | AB   | AB   | 5   | 6    | 7    | 8    | 9   | 10                 | 11   | AB   | Rajinder     |                          |  |
| 15                                       | RANDHIR KUMAR          | 1                                          | AB   | 3    | AB  | 4    | 5    | 6    | AB  | 7    | 8    | AB   | 9   | AB                 | 10   | 11   | Randhir      |                          |  |
| 16                                       | RITU BALA              | 1                                          | 2    | 3    | 4   | 5    | 6    | 7    | 8   | AB   | 9    | 10   | AB  | AB                 | 11   | 12   | Ritu         |                          |  |
| 17                                       | SAHIL                  | 1                                          | 2    | ab   | 3   | AB   | 4    | 5    | 6   | AB   | AB   | 7    | 8   | 9                  | AB   | 10   | Sahil        |                          |  |
| 18                                       | SAMEER AHMAD BABA      | AB                                         | 1    | 2    | 3   | 4    | AB   | AB   | 5   | 6    | 7    | 8    | 9   | 10                 | 11   | AB   | Sameer       |                          |  |
| 19                                       | SUMEET KUMAR           | 1                                          | AB   | 3    | AB  | 4    | 5    | 6    | AB  | 7    | 8    | AB   | 9   | AB                 | 10   | 11   | Sumet        |                          |  |
| 20                                       | MOHIT CHOUDHARY        | 1                                          | 2    | 3    | 4   | 5    | 6    | 7    | 8   | AB   | 9    | 10   | AB  | AB                 | 11   | 12   | Mohit        |                          |  |
| 21                                       | MUDASIR AHMAD PARAY    | 1                                          | 2    | ab   | 3   | AB   | 4    | 5    | 6   | AB   | AB   | 7    | 8   | 9                  | AB   | 10   | Mudasir      |                          |  |
| 22                                       | MUKUL KUMAR            | AB                                         | 1    | 2    | 3   | 4    | AB   | AB   | 5   | 6    | 7    | 8    | 9   | 10                 | 11   | AB   | Mukul        |                          |  |
| 23                                       | MUZAMIL YASEEM         | 1                                          | AB   | 3    | AB  | 4    | 5    | 6    | AB  | 7    | 8    | AB   | 9   | AB                 | 10   | 11   | Muzamil      |                          |  |
| 24                                       | OPINDERJEET SINGH      | 1                                          | 2    | 3    | 4   | 5    | 6    | 7    | 8   | AB   | 9    | 10   | AB  | AB                 | 11   | 12   | Opinderjeet  |                          |  |
| 25                                       | PARAMJEET SINGH        | 1                                          | 2    | ab   | 3   | AB   | 4    | 5    | 6   | AB   | AB   | 7    | 8   | 9                  | AB   | 10   | Paramjeet    |                          |  |
| 26                                       | RAHUL KUMAR            | AB                                         | 1    | 2    | 3   | 4    | AB   | AB   | 5   | 6    | 7    | 8    | 9   | 10                 | 11   | AB   | Rahul        |                          |  |
| 27                                       | RAMEEZ AKRAM           | 1                                          | AB   | 3    | AB  | 4    | 5    | 6    | AB  | 7    | 8    | AB   | 9   | AB                 | 10   | 11   | Rameez       |                          |  |
| 28                                       | RASHID LATIF           | 1                                          | 2    | 3    | 4   | 5    | 6    | 7    | 8   | AB   | 9    | 10   | AB  | AB                 | 11   | 12   | Rashid       |                          |  |
| 29                                       | RATAN KUMAR            | 1                                          | AB   | 3    | AB  | 4    | 5    | 6    | AB  | 7    | 8    | AB   | 9   | AB                 | 10   | 11   | Ratan Kumar  |                          |  |

# **PHYSICS MAGIC OF MATERIALS**

## **OBJECTIVE**

A thorough understanding of the fundamentals of materials is provided by this course. This course provides knowledge on several material types, their characteristics, and their uses. This course emphasizes the value of individual actions in combating plastic pollution, introduces students to the concepts of reducing plastic waste, and offers doable strategies for implementing more sustainable practices. It also offers easy-to-implement steps that students can take on a daily basis.

## **I introduction and Types of Materials**

- Definition of materials and their importance in everyday life
- Examples of common materials around us.
- Natural Materials
- Synthetic Materials
- Introduction to metals, Ceramic and Composites

## **II. Properties and Application of Materials**

- Physical, Mechanical, Thermal and Electrical Properties
- Materials in Everyday Objects
- Materials in Technology
- Materials in Construction

## **III. Materials Recycling and Sustainability**

- Importance of recycling materials
- Example of recycling common materials
- Benefits of using sustainable Materials
- Choosing the right material for specific purposes
- Factors to consider when selecting materials

## **IV. Plastic – Free Living and Plastic Alternative**

- Introduction to the concepts of Plastic-free Living
- Exploring the 4R's. Refuse, Reduce, Reuse, Recycle
- Reusable water bottles, bags, and food containers
- Sustainable packaging options
- Eco-friendly personal options

## **V. Engaging Communities and Spreading Awareness**

- Strategies for promoting plastics-free living in local communities
- Sharing success stories and case Studies

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2019-20**

| S.NO | ROLL NO | NAME                  | BRANCH       | YEAR | VALUE ADDED COURSE         |
|------|---------|-----------------------|--------------|------|----------------------------|
| 1    | 1509958 | Paras yadav           | B.Arch       | 5TH  | Physics Magic Of Materials |
| 2    | 1509959 | Rajat Thapar          | B.Arch       | 5TH  | Physics Magic Of Materials |
| 3    | 1509963 | Sandeep Kaur          | B.Arch       | 5TH  | Physics Magic Of Materials |
| 4    | 1509969 | Slmranjeet Kaur       | B.Arch       | 5TH  | Physics Magic Of Materials |
| 5    | 1509970 | Sivank Rastogi        | B.Arch       | 5TH  | Physics Magic Of Materials |
| 6    | 1509971 | Sonal Sharma          | B.Arch       | 5TH  | Physics Magic Of Materials |
| 7    | 1509972 | Sumit singh Negi      | B.Arch       | 5TH  | Physics Magic Of Materials |
| 8    | 1608640 | Amandeep Raj Aggarwal | B.Arch       | 4TH  | Physics Magic Of Materials |
| 9    | 1608641 | Anshika Mittal        | B.Arch       | 4TH  | Physics Magic Of Materials |
| 10   | 1608642 | Bajinder Kumar        | B.Arch       | 4TH  | Physics Magic Of Materials |
| 11   | 1608644 | Digamber Singh        | B.Arch       | 4TH  | Physics Magic Of Materials |
| 12   | 1608643 | Dharini Middha        | B.Arch       | 4TH  | Physics Magic Of Materials |
| 13   | 1637810 | RAJENDRA SHAHU        | B.Tech CSE   | 4TH  | Physics Magic Of Materials |
| 14   | 1608496 | RAJINDER KAUR         | B.Tech CSE   | 4TH  | Physics Magic Of Materials |
| 15   | 1608498 | RANDHIR KUMAR         | B.Tech CSE   | 4TH  | Physics Magic Of Materials |
| 16   | 1608500 | RITU BALA             | B.Tech CSE   | 4TH  | Physics Magic Of Materials |
| 17   | 1608501 | SAHIL                 | B.Tech CSE   | 4TH  | Physics Magic Of Materials |
| 18   | 1608502 | SAMEER AHMAD BABA     | B.Tech CSE   | 4TH  | Physics Magic Of Materials |
| 19   | 1608508 | SUMEET KUMAR          | B.Tech CSE   | 4TH  | Physics Magic Of Materials |
| 20   | 1608419 | MOHIT CHOUDHARY       | B.TECH CIVIL | 4TH  | Physics Magic Of Materials |
| 21   | 1637798 | MUDASIR               | B.TECH CIVIL | 4TH  | Physics Magic Of           |



|    |         |                     |              |     |                            |
|----|---------|---------------------|--------------|-----|----------------------------|
|    |         | AHMAD PARAY         |              |     | Materials                  |
| 22 | 1608421 | MUKUL KUMAR         | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 23 | 1608422 | MUZAMIL YASEEM      | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 24 | 1608423 | OPINDERJEET SINGH   | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 25 | 1608424 | PARAMJEET SINGH     | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 26 | 1608428 | RAHUL KUMAR         | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 27 | 1637800 | RAMEEZ AKRAM        | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 28 | 1637811 | RASHID LATIF        | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 29 | 1608429 | RATAN KUMAR         | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 30 | 1637801 | RIZWAN AHMAD WANI   | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 31 | 1637803 | ROUF AHMAD BHAT     | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 32 | 1608431 | SAHIL MANKOTIA      | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 33 | 1608432 | SAMUEL LALNUNPUIA   | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 34 | 1608433 | SAQIB BASHIR        | B.TECH CIVIL | 4TH | Physics Magic Of Materials |
| 35 | 1608434 | SHAH SUHAIB MUJTABA | B.TECH CIVIL | 4TH | Physics Magic Of Materials |

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Serial no -----

## *Certificate of Participation*

This is to certify that \_\_\_\_\_ of Roll No. \_\_\_\_\_ Branch \_\_\_\_\_ Class \_\_\_\_\_ has completed Value Added Course Titled \_\_\_\_\_  
Course held from \_\_\_\_\_ to \_\_\_\_\_,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

## Academic Year 2019-20

### Activity organized Report

Date : 17.10.2019

|                               |                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                      |
| Title of Activity             | Fault analysis at home                                                                                                                                                                                                                                                                                                  |
| Programme                     | B.Tech EE,M.Tech EE                                                                                                                                                                                                                                                                                                     |
| Date of Commencement          | 11.7.2019                                                                                                                                                                                                                                                                                                               |
| Date of Completion            | 17.10.2019                                                                                                                                                                                                                                                                                                              |
| Place of activity             | D207                                                                                                                                                                                                                                                                                                                    |
| No of participants Enrolled   | 20                                                                                                                                                                                                                                                                                                                      |
| No of participants completed  | 18                                                                                                                                                                                                                                                                                                                      |
| Course Coordinator and Expert | NAVDEEP SINGH                                                                                                                                                                                                                                                                                                           |
| Summary of activity           | The value added course for the odd Semester During the Academic Year 2019-20 was Successfully Organized .The Course On “FAULT ANALYSIS AT HOME ” was covered .It Was aimed at various course students to understand faults in appliances .A total of 20 students registered for the course and 18 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                         |

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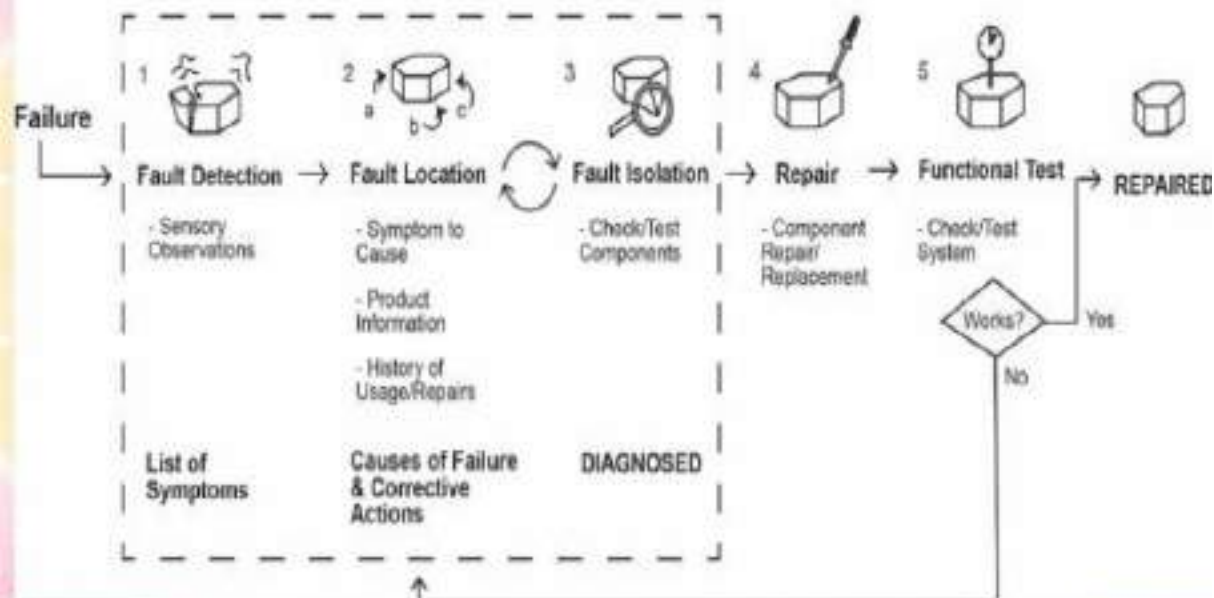
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## *Fault Analysis in Home Appliances*

### *Value Added Course*

#### Fault Diagnosis



**COMMENCEMENT FROM:- 11/7/2019**

**Coordinator:- Navdeep Singh**

**Department of Electrical Engineering**





# IET BHADDAL

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UGC approved (21 & 12B) | Affiliated to JKC-PTU (Jalandhar)

IET/DEPT-EE/077

Date: 11/7/2019

PRINCIPAL  
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ROPAR

Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2019-20. The details of value added Course is as follow

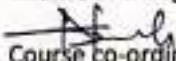
| S.no | Name of Value Added Course | Class                  | Contact Hrs | Date of Commencement | Expert        |
|------|----------------------------|------------------------|-------------|----------------------|---------------|
| 1    | Fault analysis at home     | B.TECH<br>EE,M.TECH EE | 30/45       | 11. 7.2019           | NAVDEEP SINGH |
|      |                            |                        |             |                      |               |

It is requested to kindly approve the faculty Expert and Course content of after mentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

  
Course co-ordinator

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : info@ietbhaddal.edu.in | Website: www.ietbhaddal.edu.in



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Campus: Bhaddal, PO Mianpur, Distt. Ropar, Punjab-140108 (India)  
UGC approved (2f & 12B) | Affiliated to IKG-PTU (Jalandhar)

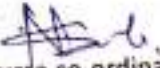
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DATE 11/7/2019

## NOTICE

It is for the information of all students of - That **EE** department is conducting value added course entitled - Fault analysis at home from -11/07/2019. The Course is scheduled for —45 hrs duration.

The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 75% attendance

  
Course co-ordinator:

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Head of Department

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Head Of all Departments ( For Information)  
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ALL the notice boards

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Email : info@ietbhaddal.edu.in | Website: www.ietbhaddal.edu.in



Dept of EE 2019-20

Dept of 66 2019-20

| Duration 3HR |                      | ATTENDANCE SHEET FOR VALUE ADDED COURSES |      |      |                                       |     |      |      |      |     |      |      |                        |      |       |       |                    |                    |
|--------------|----------------------|------------------------------------------|------|------|---------------------------------------|-----|------|------|------|-----|------|------|------------------------|------|-------|-------|--------------------|--------------------|
| S.no         | Name                 | 11/7                                     | 18/7 | 25/7 | Name Of Course Fault analysis at home |     |      |      |      |     |      |      | Course Duration 45 HRS |      |       |       |                    | Total attendance % |
|              |                      |                                          |      |      | 1/8                                   | 8/8 | 15/8 | 23/8 | 31/8 | 7/9 | 14/9 | 21/9 | 28/9                   | 3/10 | 10/10 | 17/10 |                    |                    |
| 1            | ASIA MANZOOR         | 1                                        | 2    | 3    | AB                                    | 4   | 5    | 6    | AB   | 7   | 8    | AB   | 9                      | 10   | AB    | 11    | Asia Manzoor       |                    |
| 2            | BASU MAGOTRA         | 1                                        | 2    | AB   | AB                                    | 3   | 4    | 5    | 6    | AB  | AB   | 7    | 8                      | 9    | 10    | AB    | Basu Ma.           |                    |
| 3            | FAYIZ MANZOOR        | 1                                        | AB   | 2    | 3                                     | 4   | 5    | 6    | AB   | AB  | 7    | 8    | 9                      | 10   | 11    | 12    | Fayiz Manzoor      |                    |
| 4            | GURDIP SINGH BALA    | 1                                        | 2    | 3    | 4                                     | AB  | AB   | AB   | 5    | 6   | 7    | 8    | AB                     | 9    | 10    | 11    | Gurdeep Singh Bala |                    |
| 5            | JAUJID MUSHTAQ       | 1                                        | 2    | 3    | AB                                    | 4   | 5    | 6    | AB   | 7   | 8    | AB   | 9                      | 10   | AB    | 11    | Jaujid             |                    |
| 6            | JEHANGIR RASHID      | 1                                        | 2    | AB   | AB                                    | 3   | 4    | 5    | 6    | AB  | AB   | 7    | 8                      | 9    | 10    | AB    | Jehangir           |                    |
| 7            | KANEEZ FATIMA        | 1                                        | AB   | 2    | 3                                     | 4   | 5    | 6    | AB   | AB  | 7    | 8    | 9                      | 10   | 11    | 12    | Kaneez             |                    |
| 8            | MEHAK MUSHTAQ        | 1                                        | 2    | 3    | 4                                     | AB  | AB   | AB   | 5    | 6   | 7    | 8    | AB                     | 9    | 10    | 11    | Mehak              |                    |
| 9            | Ragaya mohi u din    | 1                                        | 2    | AB   | AB                                    | 3   | 4    | 5    | 6    | AB  | AB   | 7    | 8                      | 9    | 10    | AB    | Ragaya             |                    |
| 10           | SHEIKH SHAKIR ZAUQOR | 1                                        | AB   | 2    | 3                                     | 4   | 5    | 6    | AB   | AB  | 7    | 8    | 9                      | 10   | 11    | 12    | Sheikh Shakir      |                    |
| 11           | SHERAZA BASHIR       | 1                                        | 2    | 3    | 4                                     | AB  | AB   | AB   | 5    | 6   | 7    | 8    | AB                     | 9    | 10    | 11    | Sheraza            |                    |
| 12           | UZNAIN FAROOQ        | 1                                        | 2    | 3    | AB                                    | 4   | 5    | 6    | AB   | 7   | 8    | AB   | 9                      | 10   | AB    | 11    | Uznain             |                    |
| 13           | AKSHIT JASWAL        | 1                                        | 2    | AB   | AB                                    | 3   | 4    | 5    | 6    | AB  | AB   | 7    | 8                      | 9    | 10    | AB    | Akshat             |                    |
| 14           | GURPREET KAUR        | 1                                        | 2    | AB   | AB                                    | 3   | 4    | 5    | 6    | AB  | AB   | 7    | 8                      | 9    | 10    | AB    | Gurpreet           |                    |
| 15           | MANVIR SINGH         | 1                                        | 2    | AB   | AB                                    | 3   | 4    | 5    | 6    | AB  | AB   | 7    | 8                      | 9    | 10    | AB    | Manvir Singh       |                    |
| 16           | RAHUL KUMAR          | 1                                        | 2    | AB   | AB                                    | 3   | 4    | 5    | 6    | AB  | AB   | 7    | 8                      | 9    | 10    | AB    | Rahul              |                    |
| 17           | RAJAN BABU SAH       | 1                                        | AB   | 2    | 3                                     | 4   | 5    | 6    | AB   | AB  | 7    | 8    | 9                      | 10   | 11    | 12    | Rajan              |                    |
| 18           | RAJAT KUMAR          | 1                                        | 2    | 3    | 4                                     | AB  | AB   | AB   | 5    | 6   | 7    | 8    | AB                     | 9    | 10    | AB    | Rajat              |                    |
| 19           | SAHIL MINHAS         | 1                                        | 2    | AB   | AB                                    | 3   | 4    | 5    | 6    | AB  | AB   | 7    | 8                      | 9    | 10    | AB    | Sahil              |                    |
| 20           | SUMESH KUMAR         | 1                                        | AB   | 2    | 3                                     | 4   | 5    | 6    | AB   | AB  | 7    | 8    | 9                      | 10   | 11    | 12    | Sumesh             |                    |
| 21           | GURSEWAK SINGH       | 1                                        | 2    | 3    | 4                                     | AB  | AB   | AB   | 5    | 6   | 7    | 8    | AB                     | 9    | 10    | 11    | Gursewak           |                    |

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# FAULT ANALYSIS AT HOME

## Course Objectives

1. To comprehend the fundamental components of electronics and electrical gadgets.
2. To comprehend the layout and wiring of the home.
3. To comprehend the fundamentals of safety procedures.
4. To comprehend the different concepts of household appliances.
5. To estimate the age or predict the quality of household equipment.
6. To fix small flaws and do layman's checks.
7. To diagnose the flaws in the most widely used home appliances.
8. To comprehend the methods used in sophisticated home equipment maintenance

## Course Outcomes

By the end of the course, the students will be able to

1. Make suggestions for and implement corrective actions for the household equipment.
2. Perform technical checks using the appropriate tools and address any issues.
3. Gain an understanding of the methods used in sophisticated home equipment maintenance
4. Basic electrical and electronic appliance repair and upkeep.
5. Recognition of safety equipment.
6. LED light bulbs, fans, irons, TVs, coolers, and many more items are repaired and maintained.
7. Capable of performing housework and upkeep.

## Introduction to Electricity

Electric Charge, Voltage, Electric Current, Ohm's Law, Electric Potential, Cell, Serial and Parallel Circuit, their effect on Voltage and Current Transformer, Use and Operation

10 Hours

## Tools and equipment use for Repairing and maintenance of Electrical Equipment

Screw Driver Set ,Tweezers, Different Types of Tweezers, Nose Pliers, Wire Cutter, Hot air gun, Liquid solder pest, Magnifying Lamp and Measuring Tools, Brush, CRO, Nipper, Test and Measurement Equipment, Multimeter Operation etc.

20 Hours

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2019-20**

| S.NO | ROLL NO | NAME                | BRANCH    | YEAR | VALUE ADDED COURSE     |
|------|---------|---------------------|-----------|------|------------------------|
| 1    | 1807036 | ASIA MANZOOR        | M.TECH EE | 2ND  | Fault analysis at home |
| 2    | 1807037 | BASU MAGOTRA        | M.TECH EE | 2ND  | Fault analysis at home |
| 3    | 1807040 | FAYIZ MANZOOR       | M.TECH EE | 2ND  | Fault analysis at home |
| 4    | 1807041 | GURDIP SINGH BALA   | M.TECH EE | 2ND  | Fault analysis at home |
| 5    | 1807042 | JAUJID MUSHTAQ      | M.TECH EE | 2ND  | Fault analysis at home |
| 6    | 1807043 | JEHANGIR RASHID     | M.TECH EE | 2ND  | Fault analysis at home |
| 7    | 1807044 | KANEEZ FATIMA       | M.TECH EE | 2ND  | Fault analysis at home |
| 8    | 1807045 | MEHAK MUSHTAQ       | M.TECH EE | 2ND  | Fault analysis at home |
| 9    | 1807048 | Raqaya mohi u din   | M.TECH EE | 2ND  | Fault analysis at home |
| 10   | 1807050 | SHEIKH SHAKIR ZAHOR | M.TECH EE | 2ND  | Fault analysis at home |
| 11   | 1807051 | SHERAZA BASHIR      | M.TECH EE | 2ND  | Fault analysis at home |
| 12   | 1807052 | UZNAIN FAROOQ       | M.TECH EE | 2ND  | Fault analysis at home |
| 13   | 1708209 | Sukhpreet Singh     | B.TECH EE | 3RD  | Fault analysis at home |
| 14   | 1708215 | AAMIR YOUSUF MALIK  | B.TECH EE | 3RD  | Fault analysis at home |
| 15   | 1708216 | GURDEEP SINGH       | B.TECH EE | 3RD  | Fault analysis at home |
| 16   | 1708168 | RAHUL KUMAR         | B.TECH EE | 3RD  | Fault analysis at home |
| 17   | 1708169 | RAJAN BABU SAH      | B.TECH EE | 3RD  | Fault analysis at home |
| 18   | 1708170 | RAJAT KUMAR         | B.TECH EE | 3RD  | Fault analysis at home |
| 19   | 1708171 | SAHIL MINHAS        | B.TECH EE | 3RD  | Fault analysis at home |
| 20   | 1708172 | SUMESH KUMAR        | B.TECH EE | 3RD  | Fault analysis at home |



|    |         |                   |           |     |                           |
|----|---------|-------------------|-----------|-----|---------------------------|
| 21 | 1608407 | GURSEWAK<br>SINGH | B.TECH EE | 4TH | Fault analysis at<br>home |
|----|---------|-------------------|-----------|-----|---------------------------|

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# IETBHADDAL

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Serial no -----

## *Certificate of Participation*

This is to certify that \_\_\_\_\_ of Roll No. \_\_\_\_\_ Branch \_\_\_\_\_ Class \_\_\_\_\_ has completed Value Added Course Titled \_\_\_\_\_  
Course held from \_\_\_\_\_ to \_\_\_\_\_,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

Academic Year 2019-20

Activity organized Report

Date : 06-11-2019

|                               |                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                         |
| Title of Activity             | COURSE IN ADVERTISEMENT                                                                                                                                                                                                                                                                                                    |
| Programme                     | MBA                                                                                                                                                                                                                                                                                                                        |
| Date of Commencement          | 31-07-2019                                                                                                                                                                                                                                                                                                                 |
| Date of Completion            | 06-11-2019                                                                                                                                                                                                                                                                                                                 |
| Place of activity             | F BLOCK SEMINAR HALL                                                                                                                                                                                                                                                                                                       |
| No of participants Enrolled   | 35                                                                                                                                                                                                                                                                                                                         |
| No of participants completed  | 32                                                                                                                                                                                                                                                                                                                         |
| Course Coordinator and Expert | RAMANDEEP MAVI                                                                                                                                                                                                                                                                                                             |
| Summary of activity           | The value added course for the Even Semester During the Academic Year 2019-20 was Successfully Organized .The Course On “COURSE IN ADVERTISEMENT ” was covered .It Was aimed at various course students to understand role of advertisement .A total of 35 students registered for the course and 32 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                            |

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# Course in Advertisement



## Value Added Course



Commencement from :-

31/7/2019

**Coordinator :-**

# Ramandeep Mavi

**Organised by :-**

**Department of MBA**

# Bhaddal

SHUBLAKSHAN SINGH BINDRA





# IET BHADDAL

Campus: Bhaddal, PO Mansarovar, Distt. Ropar, Punjab-140106 (India)  
UGC approved [21 & 12B] | Affiliated to IKG PTU (Jalandhar)

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ROPAR

IET/DEPT- MBA 047

Date: 31/7/2019

PRINCIPAL  
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ROPAR

Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2019-20. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class | Contact Hrs | Date of Commencement | Expert         |
|------|----------------------------|-------|-------------|----------------------|----------------|
| 1    | COURSE IN ADVERTISEMENT    | MBA   | 30/45       | 31-07-2019           | RAMANDEEP MAVI |
|      |                            |       |             |                      |                |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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Thanks and Regards  
*Ramandeep*  
Course co-ordinator  
*Mani*

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)



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Campus: Bhaddal, PO Mianpur, Distt. Ropar, Punjab-140108 (India)  
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IET/VAC/MBA/011

DATE 31/7/2019

## NOTICE

It is for the information of all students of - That **MBA** department is conducting value added course entitled **-COURSE IN ADVERTISEMENT** from -31-07-2019. The Course is scheduled for -45 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

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Head of Department

Cc : principal ( For Kind information please)  
Head Of all Departments ( For Information)  
IQAC  
ALL the notice boards





| DURATION 3HRS/WEEK |                   |      | ATTENDANCE SHEET FOR VALUE ADDED COURSES |       |      |       |      |       |       |       |      |      |       | Course Duration 45HRS |       |       | SIGNATURE  |
|--------------------|-------------------|------|------------------------------------------|-------|------|-------|------|-------|-------|-------|------|------|-------|-----------------------|-------|-------|------------|
| S.no               | Name              | 31/7 | 06/08                                    | 13/08 | 20/8 | 27/08 | 3/09 | 10/09 | 17/09 | 24/09 | 1/10 | 8/10 | 15/10 | 22/10                 | 29/10 | 06/11 |            |
| 1                  | AAMIR AHMAD       | 1    | 2                                        | ab    | 3    | AB    | 4    | 5     | 6     | AB    | AB   | 7    | 8     | 9                     | AB    | 10    | Aamir      |
| 2                  | AMANDEEP KAUR     | AB   | 1                                        | 2     | 3    | 4     | AB   | AB    | 5     | 6     | 7    | 8    | 9     | 10                    | 11    | AB    | Amandeep   |
| 3                  | ANILPREET SASAN   | 1    | AB                                       | 3     | AB   | 4     | 5    | 6     | AB    | 7     | 8    | AB   | 9     | AB                    | 10    | 11    | Anilpreet  |
| 4                  | DALJEET KAUR      | 1    | 2                                        | 3     | 4    | 5     | 6    | 7     | 8     | AB    | 9    | 10   | AB    | AB                    | 11    | 12    | Daljeet    |
| 5                  | DIKSHA POSWAL     | 1    | 2                                        | ab    | 3    | AB    | 4    | 5     | 6     | AB    | AB   | 7    | 8     | 9                     | AB    | 10    | Diksha     |
| 6                  | KARAMJIT KAUR     | AB   | 1                                        | 2     | 3    | 4     | AB   | AB    | 5     | 6     | 7    | 8    | 9     | 10                    | 11    | AB    | Karamjit   |
| 7                  | MANPREET KAUR     | 1    | AB                                       | 3     | AB   | 4     | 5    | 6     | AB    | 7     | 8    | AB   | 9     | AB                    | 10    | 11    | Manpreet   |
| 8                  | MUKESH KUMAR      | 1    | 2                                        | 3     | 4    | 5     | 6    | 7     | 8     | AB    | 9    | 10   | AB    | AB                    | 11    | 12    | Mukesh     |
| 9                  | RAMANDEEP KAUR    | 1    | AB                                       | 3     | AB   | 4     | 5    | 6     | AB    | 7     | 8    | AB   | 9     | AB                    | 10    | 11    | Ramandeep  |
| 10                 | REEMA SOOD        | 1    | 2                                        | 3     | 4    | 5     | 6    | 7     | 8     | AB    | 9    | 10   | AB    | AB                    | 11    | 12    | Reema      |
| 11                 | SATKIRAT KAUR     | 1    | 2                                        | ab    | 3    | AB    | 4    | 5     | 6     | AB    | AB   | 7    | 8     | 9                     | AB    | 10    | Satkirat   |
| 12                 | SHUBHAM           | AB   | 1                                        | 2     | 3    | 4     | AB   | AB    | 5     | 6     | 7    | 8    | 9     | 10                    | 11    | AB    | Shubham    |
| 13                 | SUKHDEEP KAUR     | 1    | 2                                        | ab    | 3    | AB    | 4    | 5     | 6     | AB    | AB   | 7    | 8     | 9                     | AB    | 10    | Sukhdeep   |
| 14                 | Talib Ali bhat    | AB   | 1                                        | 2     | 3    | 4     | AB   | AB    | 5     | 6     | 7    | 8    | 9     | 10                    | 11    | AB    | Talib      |
| 15                 | Tanvir Ahmad Lone | 1    | AB                                       | 3     | AB   | 4     | 5    | 6     | AB    | 7     | 8    | AB   | 9     | AB                    | 10    | 11    | Tanvir     |
| 16                 | AJAY KUMAR        | 1    | 2                                        | 3     | 4    | 5     | 6    | 7     | 8     | AB    | 9    | 10   | AB    | AB                    | 11    | 12    | Ajay       |
| 17                 | AMANPREET KAUR    | 1    | 2                                        | ab    | 3    | AB    | 4    | 5     | 6     | AB    | AB   | 7    | 8     | 9                     | AB    | 10    | Amanpreet  |
| 18                 | AMRITPAL KAUR     | AB   | 1                                        | 2     | 3    | 4     | AB   | AB    | 5     | 6     | 7    | 8    | 9     | 10                    | 11    | AB    | Amritpal   |
| 19                 | AMRITA RANI       | 1    | AB                                       | 3     | AB   | 4     | 5    | 6     | AB    | 7     | 8    | AB   | 9     | AB                    | 10    | 11    | Amrita     |
| 20                 | AQIB FAROOQ       | 1    | 2                                        | 3     | 4    | 5     | 6    | 7     | 8     | AB    | 9    | 10   | AB    | AB                    | 11    | 12    | Aqib       |
| 21                 | DAMAN JOT KAUR    | 1    | 2                                        | ab    | 3    | AB    | 4    | 5     | 6     | AB    | AB   | 7    | 8     | 9                     | AB    | 10    | Daman      |
| 22                 | farooz din shah   | AB   | 1                                        | 2     | 3    | 4     | AB   | AB    | 5     | 6     | 7    | 8    | 9     | 10                    | 11    | AB    | Farooz     |
| 23                 | HARPREET KAUR     | 1    | AB                                       | 3     | AB   | 4     | 5    | 6     | AB    | 7     | 8    | AB   | 9     | AB                    | 10    | 11    | Harpreet   |
| 24                 | KAMALJEET KAUR    | 1    | 2                                        | 3     | 4    | 5     | 6    | 7     | 8     | AB    | 9    | 10   | AB    | AB                    | 11    | 12    | Kamal      |
| 25                 | KIRANJEET KAUR    | 1    | 2                                        | ab    | 3    | AB    | 4    | 5     | 6     | AB    | AB   | 7    | 8     | 9                     | AB    | 10    | Kiranjeet  |
| 26                 | NEHA BHATT        | AB   | 1                                        | 2     | 3    | 4     | AB   | AB    | 5     | 6     | 7    | 8    | 9     | 10                    | 11    | AB    | Neha       |
| 27                 | POOJA SHARMA      | 1    | AB                                       | 3     | AB   | 4     | 5    | 6     | AB    | 7     | 8    | AB   | 9     | AB                    | 10    | 11    | Pooja      |
| 28                 | POONAM            | 1    | 2                                        | 3     | 4    | 5     | 6    | 7     | 8     | AB    | 9    | 10   | AB    | AB                    | 11    | 12    | Poonam     |
| 29                 | SHEENA SAINI      | 1    | AB                                       | 3     | AB   | 4     | 5    | 6     | AB    | 7     | 8    | AB   | 9     | AB                    | 10    | 11    | Sheena     |
| 30                 | vaishali sharma   | 1    | 2                                        | 3     | 4    | 5     | 6    | 7     | 8     | AB    | 9    | 10   | AB    | AB                    | 11    | 12    | Vaishali   |
| 31                 | Anuradha Hans     | 1    | 2                                        | ab    | 3    | AB    | 4    | 5     | 6     | AB    | AB   | 7    | 8     | 9                     | AB    | 10    | Anuradha   |
| 32                 | Charanjit Kaur    | AB   | 1                                        | 2     | 3    | 4     | AB   | AB    | 5     | 6     | 7    | 8    | 9     | 10                    | 11    | AB    | Charanjit  |
| 33                 | DAMANPREET KAUR   | 1    | 2                                        | 3     | 4    | 5     | 6    | 7     | 8     | AB    | 9    | 10   | AB    | AB                    | 11    | 12    | Damanpreet |
| 34                 | Kirandeep Kaur    | 1    | 2                                        | ab    | 3    | AB    | 4    | 5     | 6     | AB    | AB   | 7    | 8     | 9                     | AB    | 10    | Kirandeep  |
| 35                 | NISHA             | AB   | 1                                        | 2     | 3    | 4     | AB   | AB    | 5     | 6     | 7    | 8    | 9     | 10                    | 11    | AB    | Nisha      |

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Ramandeep  
Maurit



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# INTRODUCTION TO ADVERTISING

- Integrated Marketing Communications (IMC)- Concept, Features, Elements, Role of advertising in IMC
- Advertising: Concept, Features, Evolution of Advertising, Active Participants, Benefits of advertising to Business firms and consumers.
- Classification of advertising: Geographic, Media, Target audience and Functions.

## 2 Advertising Agency 1

- Ad Agency: Features, Structure and services offered, Types of advertising agencies, Agency selection criteria
- Agency and Client: Maintaining Agency–Client relationship, Reasons and ways of avoiding Client Turnover, Creative Pitch, Agency compensation
- Careers in advertising: Skills required for a career in advertising, Various Career Options, Freelancing Career Options - Graphics, Animation, Modeling, Dubbing.

## 3 Economic & Social Aspects of Advertising 1

1

- Economic Aspects: Effect of advertising on consumer demand, monopoly and competition, Price.
- Social aspects: Ethical and social issues in advertising, positive and negative influence of advertising on Indian values and culture.
- Pro Bono/Social advertising: Pro Bono Advertising, Social Advertising by Indian Government through Directorate of Advertising and Visual Publicity (DAVP), Self-Regulatory body Role of ASCI (Advertising Standard Council of India) Brand Building and Special Purpose Advertising 1
- Brand Building: The Communication Process, AIDA Model, Role of advertising in developing Brand Image and Brand Equity, and managing Brand Crises.
- Special purpose advertising: Rural advertising, Political advertising-, Advocacy advertising, Corporate Image advertising, Green Advertising – Features of all the above special purpose advertising.
- Trends in Advertising: Media, Ad spends, Ad Agencies, Execution of advertisements, Use of Artificial intelligence, Data science and analytics for Targeting

### References:

1. Advertising and Promotion : An Integrated Marketing Communications Perspective George Belch and Michael Belch, 2015, 10th Edition, McGraw Hill Education
2. Contemporary Advertising, 2017, 15th Edition, William Arens, Michael Weigold and Christian Arens, Hill Higher Education
3. Strategic Brand Management – Kevin Lane Keller, 4th Edition, 2013 – Pearson Education Limited
4. Kleppner's Advertising Procedure – Ron Lane and Karen King, 18th edition, 2011 – Pearson Education Limited
5. Advertising: Planning and Implementation, 2006 – Raghuvir Singh, Sangeeta Sharma – Prentice Hall



6. Advertising Management, 5th Edition, 2002 – Batra, Myers and Aaker – Pearson Education
7. Advertising Principles and Practice, 2012 - Ruchi Gupta – S.Chand Publishing
8. Brand Equity & Advertising- Advertising's role in building strong brands, 2013-David A. Aker, Alexander L. Biel, Psychology Press
9. Brand Positioning – Strategies for Competitive Advantage, Subroto Sengupta, 2005, Tata McGraw Hill Publication.

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2019-20**

| S.NO | ROLL NO | NAME                | BRANCH | YEAR | VALUE ADDED COURSE      |
|------|---------|---------------------|--------|------|-------------------------|
| 1    | 1934537 | AAMIR AHMAD KAMKAR  | MBA    | 1st  | COURSE IN ADVERTISEMENT |
| 2    | 1906424 | AMANDEEP KAUR       | MBA    | 1st  | COURSE IN ADVERTISEMENT |
| 3    | 1906425 | ANILPREET SASAN     | MBA    | 1st  | COURSE IN ADVERTISEMENT |
| 4    | 1906426 | DALJEET KAUR        | MBA    | 1st  | COURSE IN ADVERTISEMENT |
| 5    | 1906427 | DIKSHA POSWAL       | MBA    | 1st  | COURSE IN ADVERTISEMENT |
| 6    | 1906429 | KARAMJIT KAUR       | MBA    | 1st  | COURSE IN ADVERTISEMENT |
| 7    | 1906430 | MANPREET KAUR       | MBA    | 1st  | COURSE IN ADVERTISEMENT |
| 8    | 1906431 | MUKESH KUMAR        | MBA    | 1st  | COURSE IN ADVERTISEMENT |
| 9    | 1906432 | RAMANDEEP KAUR      | MBA    | 1st  | COURSE IN ADVERTISEMENT |
| 10   | 1906433 | REEMA SOOD          | MBA    | 1st  | COURSE IN ADVERTISEMENT |
| 11   | 1906434 | SATKIRAT KAUR       | MBA    | 1st  | COURSE IN ADVERTISEMENT |
| 12   | 1906435 | SHUBHAM             | MBA    | 1st  | COURSE IN ADVERTISEMENT |
| 13   | 1934532 | SUKHDEEP KAUR       | MBA    | 1st  | COURSE IN ADVERTISEMENT |
| 14   | 1934534 | Talib Ali bhat      | MBA    | 1st  | COURSE IN ADVERTISEMENT |
| 15   | 1934536 | Tanvir Ahmad Lone   | MBA    | 1st  | COURSE IN ADVERTISEMENT |
| 16   | 1807001 | POOJA SHARMA        | MBA    | 2nd  | COURSE IN ADVERTISEMENT |
| 17   | 1807002 | POONAM              | MBA    | 2nd  | COURSE IN ADVERTISEMENT |
| 18   | 1807003 | SENTNMBWE SHAKURU   | MBA    | 2nd  | COURSE IN ADVERTISEMENT |
| 19   | 1807004 | SHEENA SAINI        | MBA    | 2nd  | COURSE IN ADVERTISEMENT |
| 20   | 1807005 | TIWONGE KAPHAMIENGO | MBA    | 2nd  | COURSE IN ADVERTISEMENT |

|    |         |                 |        |     |                         |
|----|---------|-----------------|--------|-----|-------------------------|
| 21 | 1807007 | vaishali sharma | MBA    | 2nd | COURSE IN ADVERTISEMENT |
| 22 | 1806994 | farooz din shah | MBA    | 2nd | COURSE IN ADVERTISEMENT |
| 23 | 1806995 | HARPREET KAUR   | MBA    | 2nd | COURSE IN ADVERTISEMENT |
| 24 | 1806997 | KAMALJEET KAUR  | MBA    | 2nd | COURSE IN ADVERTISEMENT |
| 25 | 1806999 | KIRANJEET KAUR  | MBA    | 2nd | COURSE IN ADVERTISEMENT |
| 26 | 1807000 | NEHA BHATT      | MBA    | 2nd | COURSE IN ADVERTISEMENT |
| 27 | 1807001 | POOJA SHARMA    | MBA    | 2nd | COURSE IN ADVERTISEMENT |
| 28 | 1807002 | POONAM          | MBA    | 2nd | COURSE IN ADVERTISEMENT |
| 29 | 1807004 | SHEENA SAINI    | MBA    | 2nd | COURSE IN ADVERTISEMENT |
| 30 | 1807007 | vaishali sharma | MBA    | 2nd | COURSE IN ADVERTISEMENT |
| 31 | 1906456 | GURKIRAT SINGH  | M.ARCH | 1ST | COURSE IN ADVERTISEMENT |
| 32 | 1906457 | GURPREET SINGH  | M.ARCH | 1ST | COURSE IN ADVERTISEMENT |
| 33 | 1906458 | RAMANPREET KAUR | M.ARCH | 1ST | COURSE IN ADVERTISEMENT |
| 34 | 1906459 | RISHABH SINGH   | M.ARCH | 1ST | COURSE IN ADVERTISEMENT |
| 35 | 1906460 | SAKSHI SAINI    | M.ARCH | 1ST | COURSE IN ADVERTISEMENT |

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# IETBHADDAL

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Serial no -----

## *Certificate of Participation*

This is to certify that \_\_\_\_\_ of Roll No. \_\_\_\_\_ Branch \_\_\_\_\_ Class \_\_\_\_\_ has completed Value Added Course Titled \_\_\_\_\_  
Course held from \_\_\_\_\_ to \_\_\_\_\_,

CONDUCTED BY \_\_\_\_\_

Resource Person

Head of Department

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Principal

Date of issue



**Academic Year 2020-21**

**Activity organized Report**

**Date :21/10/2019**

|                                      |                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name of activity</b>              | Value Added Course                                                                                                                                                                                                                                                                                                   |
| <b>Title of Activity</b>             | PROJECT PLANNING                                                                                                                                                                                                                                                                                                     |
| <b>Programme</b>                     | ENGG/MCA/MBA/MTECH/ARCH                                                                                                                                                                                                                                                                                              |
| <b>Date of Commencement</b>          | 15/07/2019                                                                                                                                                                                                                                                                                                           |
| <b>Date of Completion</b>            | 21/10/2019                                                                                                                                                                                                                                                                                                           |
| <b>Place of activity</b>             | C BLOCK SEMINAR HALL                                                                                                                                                                                                                                                                                                 |
| <b>No of participants Enrolled</b>   | 22                                                                                                                                                                                                                                                                                                                   |
| <b>No of participants completed</b>  | 18                                                                                                                                                                                                                                                                                                                   |
| <b>Course Coordinator and Expert</b> | GAGANDEEP KAUR                                                                                                                                                                                                                                                                                                       |
| <b>Summary of activity</b>           | The value added course for the odd Semester During the Academic Year 2019-20 was Successfully Organized .The Course On “PROJECT PLANNING” was covered .It Was aimed at various course students to understand how write project report .A total of 22 students registered for the course and 18 completed the Course. |
|                                      |                                                                                                                                                                                                                                                                                                                      |

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## Project Planning Value Added Course



*Commencement From:-*  
**15/7/2019**

*Coordinator:-*  
**Ms Gagandeep Kaur**  
*Organised by:-*  
**Department of Civil Engineering**

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IET/DEPT *Civil 016*

Date: *15/7/2019*

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**Permission For Conducting value added course and allocate faculty member for same**

It is to bring to your kind notice that following value added course is finalized For academic Year 2020-21-.The details of value added Course is as follow

| S.no | Name of Value Added Course | Class                 | Contact Hrs | Date of Commencement | Expert         |
|------|----------------------------|-----------------------|-------------|----------------------|----------------|
| 1    | PROJECT PLANNING           | BTECH/MTECH/MCA/BARCH | 30/45       | 15/07/2019           | GAGANDEEP KAUR |
|      |                            |                       |             |                      |                |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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*Gagandeep Kaur*  
Thanks and Regards  
Course co-ordinator

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)



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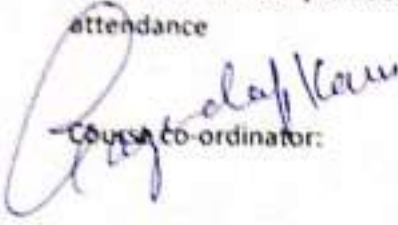
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DATE 15/7/2019

## NOTICE

It is for the information of all students of - That Civil Engg department is conducting value added course entitled -PROJECT PLANNING from -15/07/2019. The Course is scheduled for - 4Shrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

  
Head of Department

Cc : principal ( For Kind information please)  
Head Of all Departments ( For Information)  
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Dept of Chem  
2019-20

| DURATION 3HR |                   | ATTENDANCE SHEET FOR VALUE ADDED COURSES |       |       |      |       |       |       |       |       |        |        |        |       |        |        |                       |  |  | SIGNATURE |                   |
|--------------|-------------------|------------------------------------------|-------|-------|------|-------|-------|-------|-------|-------|--------|--------|--------|-------|--------|--------|-----------------------|--|--|-----------|-------------------|
| S.no         | Name              | 14//7                                    | 21//7 | 28//7 | 4//9 | 11//9 | 18//9 | 25//9 | 2//10 | 9//10 | 16//10 | 23//10 | 30//10 | 6//10 | 13//10 | 20//10 | Course Duration 45hrs |  |  |           |                   |
| 1            | BHARTI SONI       | 1                                        | 2     | ab    | 3    | AB    | 4     | 5     | 6     | AB    | AB     | 7      | 8      | 9     | AB     | 10     |                       |  |  |           | Bharti Soni       |
| 2            | DEEPANSHU TANDOU  | AB                                       | 1     | 2     | 3    | 4     | AB    | AB    | 5     | 6     | 7      | 8      | 9      | 10    | 11     | AB     |                       |  |  |           | Deepanshu Tandou  |
| 3            | JATIN GAUTAM      | 1                                        | AB    | 3     | AB   | 4     | 5     | 6     | AB    | 7     | 8      | AB     | 9      | AB    | 10     | 11     |                       |  |  |           | Jatin Gautam      |
| 4            | JYOTI DEVI        | 1                                        | 2     | 3     | 4    | 5     | 6     | 7     | 8     | AB    | 9      | 10     | AB     | AB    | 11     | 12     |                       |  |  |           | Jyoti Devi        |
| 5            | KIRANDEEP Kaur    | 1                                        | 2     | ab    | 3    | AB    | 4     | 5     | 6     | AB    | AB     | 7      | 8      | 9     | AB     | 10     |                       |  |  |           | Kiran Deep Kaur   |
| 6            | Gaurav Verma      | AB                                       | 1     | 2     | 3    | 4     | AB    | AB    | 5     | 6     | 7      | 8      | 9      | 10    | 11     | AB     |                       |  |  |           | Gaurav Verma      |
| 7            | Geetanjali Sharma | 1                                        | AB    | 3     | AB   | 4     | 5     | 6     | AB    | 7     | 8      | AB     | 9      | AB    | 10     | 11     |                       |  |  |           | Geetanjali Sharma |
| 8            | Mandhir Singh     | 1                                        | 2     | 3     | 4    | 5     | 6     | 7     | 8     | AB    | 9      | 10     | AB     | AB    | 11     | 12     |                       |  |  |           | Mandhir Singh     |
| 9            | NITIN DOGRA       | 1                                        | AB    | 3     | AB   | 4     | 5     | 6     | AB    | 7     | 8      | AB     | 9      | AB    | 10     | 11     |                       |  |  |           | Nitin Dogra       |
| 10           | Prachi Walia      | 1                                        | 2     | 3     | 4    | 5     | 6     | 7     | 8     | AB    | 9      | 10     | AB     | AB    | 11     | 12     |                       |  |  |           | Prachi Walia      |
| 11           | PRABHJEET SINGH   | 1                                        | 2     | ab    | 3    | AB    | 4     | 5     | 6     | AB    | AB     | 7      | 8      | 9     | AB     | 10     |                       |  |  |           | Prabhjeet Singh   |
| 12           | PRABHUOT Kaur     | AB                                       | 1     | 2     | 3    | 4     | AB    | AB    | 5     | 6     | 7      | 8      | 9      | AB    | 10     | 11     |                       |  |  |           | Prabhjot Kaur     |
| 13           | PRINCE RAWAT      | 1                                        | 2     | ab    | 3    | AB    | 4     | 5     | 6     | AB    | AB     | 7      | 8      | 9     | AB     | 10     |                       |  |  |           | Prince Rawat      |
| 14           | MANDEEP KUMAR     | AB                                       | 1     | 2     | 3    | 4     | AB    | AB    | 5     | 6     | 7      | 8      | 9      | AB    | 10     | 11     |                       |  |  |           | Mandeep Kumar     |
| 15           | RIZWAN RASOOL     | 1                                        | AB    | 3     | AB   | 4     | 5     | 6     | AB    | 7     | 8      | AB     | 9      | AB    | 10     | 11     |                       |  |  |           | Rizwan Rasool     |
| 16           | REEMA SOOD        | 1                                        | 2     | 3     | 4    | 5     | 6     | 7     | 8     | AB    | 9      | 10     | AB     | AB    | 11     | 12     |                       |  |  |           | Reema Sood        |
| 17           | SATKIRAT Kaur     | 1                                        | 2     | ab    | 3    | AB    | 4     | 5     | 6     | AB    | AB     | 7      | 8      | 9     | AB     | 10     |                       |  |  |           | Satkirat Kaur     |
| 18           | SHUBHAM           | AB                                       | 1     | 2     | 3    | 4     | AB    | AB    | 5     | 6     | 7      | 8      | 9      | 10    | 11     | AB     |                       |  |  |           | Shubham           |
| 19           | SUKHDEEP Kaur     | 1                                        | AB    | 3     | AB   | 4     | 5     | 6     | AB    | 7     | 8      | AB     | 9      | AB    | 10     | 11     |                       |  |  |           | Sukhdeep Kaur     |
| 20           | DAMAN JOT Kaur    | 1                                        | 2     | 3     | 4    | 5     | 6     | 7     | 8     | AB    | 9      | 10     | AB     | AB    | 11     | 12     |                       |  |  |           | Daman Jot Kaur    |
| 21           | farooz din shah   | 1                                        | 2     | ab    | 3    | AB    | 4     | 5     | 6     | AB    | AB     | 7      | 8      | 9     | AB     | 10     |                       |  |  |           | Farooz Din Shah   |
| 22           | HARPREET Kaur     | AB                                       | 1     | 2     | 3    | 4     | AB    | AB    | 5     | 6     | 7      | 8      | 9      | 10    | 11     | AB     |                       |  |  |           | Harpreet Kaur     |

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# PROJECT PLANNING

## Objectives

. To increase employability in the field of research; to learn how to prepare effective project proposals and manage research works independently; to fully understand the steps involved in preparing research projects; and to facilitate a thorough understanding of how to submit research proposals and find suitable grant agencies.

## Module 1: Prelude to Research Project

1.1. Basic concepts -- Plan, project and programme, Project Planning, Proposal and Project Planning Matrix, Project cycle and Project management, Characteristics of a project.

1.2. Project identification- Methods and techniques of project identification, need identification, recognizing scope of the project, Feasibility study and opportunity study.

1.3. Basic and supportive information required for a project, Review of literature & sources, Rules governing the preparation of Project Proposal.

1.4. Common format of a Project proposal, preparing a concept note, writing up a detailed project proposal.

## Module 2: Project Planning

2.1. Project planning - Identifying the Project area and target group, Determining the goals and objectives of the Project

2.2. Project work plan and time frame: Preparation of action plan and time schedule (GANTT charts), Assessing the feasibility and viability of the Project, Project Appraisal techniques, determining and managing risk

2.3. Financial Management of the Project: Identification of funding agencies- Governmental and Private

2.4. Preparation of Project budget: Direct and indirect costs

## Module 3: Project Implementation and Management

3.1. Personnel: Principal Investigator, Co-Principal Investigator(s), Research Associates, Postdoctoral associates, Facilities and equipments

3.2. Project Management -Resource mobilization, Organization of resources, Task allocation, Coordination in project team and communication, Accountability within project, Conflict resolution, Time management, Liaison with external agencies.

3.3. Project Monitoring and Evaluation- Need for evaluation, General criteria for evaluation, Achievement of targets, Utilization of funds, Follow up programmes, Achievement of targets, Utilization of funds, Follow up programmes

## Module 4: Project Report

4.1. Preparation and Submission of final project report

4.2. Communication and presentation of research report

4.3. Preparation and submission of a sample research project proposal

## Essential Readings

Bhavesh M Patel. (2000). Project Management, Vikas Publishing House Pvt.Ltd., New Delhi.

David I. Cleland. (1995). Project Management: Strategic, Design and Implementation,

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McGrawHill, New Delhi.

Joy. P.K.. 1994. Total project Management, Macmillan India Limited.

Moshin.M.(1977). Project Planning and Control, Vikas Publishing House Pvt. Ltd.

Nagarajan.K. (2001). Project Management, New age international (P) Ltd. New Delhi.

Prasanna Chandra, Projects.(2002). Planning, Analysis, Financing, Implementation and Review, Tata MC Graw Hill publishing Company Ltd, New Delhi.

Prasanna Chandra. (1980). Project Planning, Appraisal, Budgeting and Implementation, Tata McGraw Hill Publishing Company Limited, New Delhi.

Shaghil M, Mushtaque M. (1993). Project Formulation concept and Approaches, Print Well, Jaipur.

Vasant Desai. (1997). Project Management, Himalaya publishing house, Mumbai.

### **Suggested Reading**

Bell, J. 1987. Doing Your Research Project. Milton Keynes: Open University Press.

BrithaMikkelsen. 2005. Methods for Development Work and Research, Sage New Delhi.

David Barrat and Tony Cole. 1991. Sociology Projects - A Students' Guide: Routledge, London.

Haltlas R.G.G and Sandra C. McKee. 2003. Practical Project Management, Pearson Education, In(Singapore) Pvt. Ltd..

Narayan. B. 1999. Project Management, A.P.H Publishing corporation, New Delhi.

ParthaDasgupta, AmartyaSen and Stephen Marglin. 1972. Guidelines for Project Evaluation, Oxford & IBH Publishing Co., New Delhi.

R.G. Ghattas, Sandra L. McKee. 2003. Practical Project Management, Pearson Education (Singapore) Pvt. Ltd., Delhi.

ShrutikaKasor. 2003. Project Management, Sumit Enterprises, New Delhi.

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2019-20**

| S.NO | ROLL NO | NAME              | BRANCH      | YEAR | VALUE ADDED COURSE |
|------|---------|-------------------|-------------|------|--------------------|
| 1    | 1934521 | BHARTI SONI       | MCA         | 2ND  | PROJECT PLANNING   |
| 2    | 1934519 | DEEPANSHU TANDOU  | MCA         | 2ND  | PROJECT PLANNING   |
| 3    | 1906462 | JATIN GAUTAM      | MCA         | 2ND  | PROJECT PLANNING   |
| 4    | 1906463 | JYOTI DEVI        | MCA         | 2ND  | PROJECT PLANNING   |
| 5    | 1906464 | KIRANDEEP KAUR    | MCA         | 2ND  | PROJECT PLANNING   |
| 6    | 1608645 | Gaurav Verma      | B.Arch      | 5TH  | PROJECT PLANNING   |
| 7    | 1608646 | Geetanjali Sharma | B.Arch      | 5TH  | PROJECT PLANNING   |
| 8    | 1608647 | Mandhir Singh     | B.Arch      | 5TH  | PROJECT PLANNING   |
| 9    | 1608648 | NITIN DOGRA       | B.Arch      | 5TH  | PROJECT PLANNING   |
| 10   | 1608649 | Prachi Walia      | B.Arch      | 5TH  | PROJECT PLANNING   |
| 11   | 1708138 | PRABHJEET SINGH   | B.TECH CSE  | 3RD  | PROJECT PLANNING   |
| 12   | 1708139 | PRABHJOT KAUR     | B.TECH CSE  | 3RD  | PROJECT PLANNING   |
| 13   | 1708141 | PRINCE RAWAT      | B.TECH CSE  | 3RD  | PROJECT PLANNING   |
| 14   | 2005345 | MANDEEP KUMAR     | M.TECH CSE  | 1st  | PROJECT PLANNING   |
| 15   | 2005346 | RIZWAN RASOOL     | M.TECH(CSE) | 1st  | PROJECT PLANNING   |
| 16   | 1906433 | REEMA SOOD        | MBA         | 2ND  | PROJECT PLANNING   |
| 17   | 1906434 | SATKIRAT KAUR     | MBA         | 2ND  | PROJECT PLANNING   |
| 18   | 1906435 | SHUBHAM           | MBA         | 2ND  | PROJECT PLANNING   |
| 19   | 1934532 | SUKHDEEP KAUR     | MBA         | 2ND  | PROJECT PLANNING   |
| 20   | 1906993 | DAMAN JOT KAUR    | MBA         | 2ND  | PROJECT PLANNING   |
| 21   | 1906994 | farooz din shah   | MBA         | 2ND  | PROJECT            |



|    |         |               |     |     |                     |
|----|---------|---------------|-----|-----|---------------------|
|    |         |               |     |     | PLANNING            |
| 22 | 1906995 | HARPREET KAUR | MBA | 2ND | PROJECT<br>PLANNING |

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ROPAR

Serial no -----

## *Certificate of Participation*

This is to certify that \_\_\_\_\_ of Roll No. \_\_\_\_\_ Branch \_\_\_\_\_ Class \_\_\_\_\_ has completed Value Added Course Titled \_\_\_\_\_  
Course held from \_\_\_\_\_ to \_\_\_\_\_,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

**Academic Year 2019-20**

**Activity organized Report**

**Date :10-11-2019**

|                                      |                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name of activity</b>              | Value Added Course                                                                                                                                                                                                                                                                                                    |
| <b>Title of Activity</b>             | MOTIVATIONAL ENHANCEMENT                                                                                                                                                                                                                                                                                              |
| <b>Programme</b>                     | ENGG,ARCH,MBA                                                                                                                                                                                                                                                                                                         |
| <b>Date of Commencement</b>          | 04-08-2019                                                                                                                                                                                                                                                                                                            |
| <b>Date of Completion</b>            | 10-11-2019                                                                                                                                                                                                                                                                                                            |
| <b>Place of activity</b>             | C BLOCK SEMINAR HALL                                                                                                                                                                                                                                                                                                  |
| <b>No of participants Enrolled</b>   | 20                                                                                                                                                                                                                                                                                                                    |
| <b>No of participants completed</b>  | 17                                                                                                                                                                                                                                                                                                                    |
| <b>Course Coordinator and Expert</b> | AMAN BANSAL                                                                                                                                                                                                                                                                                                           |
| <b>Summary of activity</b>           | The value added course for the odd Semester During the Academic Year 2019-20 was Successfully Organized .The Course On “MOTIVATIONAL ENHANCEMENT ” was covered .It Was aimed at various course students to get knowledge of motivation .A total of 20 students registered for the course and 17 completed the Course. |
|                                      |                                                                                                                                                                                                                                                                                                                       |

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## Motivational Enhancement



### 5 Stages Motivational Enhancement

Express Empathy

Develop Discrepancy

Avoid argumentation

Roll with Resistance

Support Self-efficacy

value  
added  
course

*Commencement  
from:- 4/8/2019*

Coordinator:- Dr. Arman Bansal  
Department of Mechanical Engineering

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Date : 4/8/2019

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**Permission For Conducting value added course and allocate faculty member for same**

It is to bring to your kind notice that following value added course is finalized For academic Year 2020-21. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class           | Contact Hrs | Date of Commencement | Expert      |
|------|----------------------------|-----------------|-------------|----------------------|-------------|
| 1    | MOTIVATIONAL ENHANCEMENT   | B.TECH/ARCH/MBA | 30/45       | 04-08-2019           | AMAN BANSAL |
|      |                            |                 |             |                      |             |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

*(Signature)*  
Course co-ordinator



# IET BHADDAL

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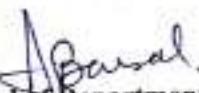
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## NOTICE

It is for the information of all students of - That *Mechanical* department is conducting value added course entitled -MOTIVATIONAL ENHANCEMENT from -04-08-2019. The Course is scheduled for -45 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course Co-ordinator:

  
Head of Department

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Dept of MB  
2019-20

| DURATION 3HR |                        | ATTENDANCE SHEET FOR VALUE ADDED COURSES |      |      |      |                                         |       |       |       |       |       |       |       |                       |      |       |  |                        |  |           |
|--------------|------------------------|------------------------------------------|------|------|------|-----------------------------------------|-------|-------|-------|-------|-------|-------|-------|-----------------------|------|-------|--|------------------------|--|-----------|
| S.No         | Name                   | 4/8                                      | 11/8 | 18/8 | 25/8 | Name Of Course MOTIVATIONAL ENHANCEMENT |       |       |       |       |       |       |       | Course Duration 45HRS |      |       |  |                        |  | SIGNATURE |
|              |                        |                                          |      |      |      | 1/09                                    | 08/09 | 15/09 | 22/09 | 29/09 | 06/10 | 13/10 | 20/10 | 27/10                 | 3/11 | 10/11 |  |                        |  |           |
| 1            | ADITYA GUPTA           | 1                                        | 2    | ab   | 3    | AB                                      | 4     | 5     | 6     | AB    | AB    | 7     | 8     | 9                     | AB   | 10    |  | Aditya                 |  |           |
| 2            | ANIL KUMAR             | AB                                       | 1    | 2    | 3    | 4                                       | AB    | AB    | 5     | 6     | 7     | 8     | 9     | 10                    | 11   | AB    |  | Anil Kumar             |  |           |
| 3            | ANALI                  | 1                                        | AB   | 3    | AB   | 4                                       | 5     | 6     | AB    | 7     | 8     | AB    | 9     | AB                    | 10   | 11    |  | Anali                  |  |           |
| 4            | HARJEET KAL            | 1                                        | 2    | 3    | 4    | 5                                       | 6     | 7     | 8     | AB    | 9     | 10    | AB    | AB                    | 11   | 12    |  | Harjeet Kal            |  |           |
| 5            | ISHA SHARMA            | 1                                        | 2    | ab   | 3    | AB                                      | 4     | 5     | 6     | AB    | AB    | 7     | 8     | 9                     | AB   | 10    |  | Isha Sharma            |  |           |
| 6            | MEHAK ARORA            | AB                                       | 1    | 2    | 3    | 4                                       | AB    | AB    | 5     | 6     | 7     | 8     | 9     | 10                    | 11   | AB    |  | Mehak Arora            |  |           |
| 7            | NANDINI SINGH          | 1                                        | AB   | 3    | AB   | 4                                       | 5     | 6     | AB    | 7     | 8     | AB    | 9     | AB                    | 10   | 11    |  | Nandini Singh          |  |           |
| 8            | IMRAN FAROOQ           | 1                                        | 2    | 3    | 4    | 5                                       | 6     | 7     | 8     | AB    | 9     | 10    | AB    | AB                    | 11   | 12    |  | Imran Farooq           |  |           |
| 9            | IMTIYAZ MANZOOR        | 1                                        | AB   | 3    | AB   | 4                                       | 5     | 6     | AB    | 7     | 8     | AB    | 9     | AB                    | 10   | 11    |  | Imtiyaz Manzoor        |  |           |
| 10           | IAHANGEER AHMAD MIR    | 1                                        | 2    | 3    | 4    | 5                                       | 6     | 7     | 8     | AB    | 9     | 10    | AB    | AB                    | 11   | 12    |  | Iahangeer Ahmad Mir    |  |           |
| 11           | JUNAID NAZIR           | 1                                        | 2    | ab   | 3    | AB                                      | 4     | 5     | 6     | AB    | AB    | 7     | 8     | 9                     | AB   | 10    |  | Junaid Nazir           |  |           |
| 12           | JUNAID RASHID DAR      | AB                                       | 1    | 2    | 3    | 4                                       | AB    | AB    | 5     | 6     | 7     | 8     | 9     | 10                    | 11   | AB    |  | Junaid Rashid Dar      |  |           |
| 13           | KASHIF QAMAR           | 1                                        | 2    | ab   | 3    | AB                                      | 4     | 5     | 6     | AB    | AB    | 7     | 8     | 9                     | AB   | 10    |  | Kashif Qamar           |  |           |
| 14           | KHEOKA YEPHTO          | AB                                       | 1    | 2    | 3    | 4                                       | AB    | AB    | 5     | 6     | 7     | 8     | 9     | 10                    | 11   | AB    |  | Kheoka Yephto          |  |           |
| 15           | KYSAR BASHIR           | 1                                        | AB   | 3    | AB   | 4                                       | 5     | 6     | AB    | 7     | 8     | AB    | 9     | AB                    | 10   | 11    |  | Kysar Bashir           |  |           |
| 16           | LATEEF MAJEED          | 1                                        | 2    | 3    | 4    | 5                                       | 6     | 7     | 8     | AB    | 9     | 10    | AB    | AB                    | 11   | 12    |  | Lateef Majeed          |  |           |
| 17           | MALIK MOHAMMAD         | 1                                        | 2    | ab   | 3    | AB                                      | 4     | 5     | 6     | AB    | AB    | 7     | 8     | 9                     | AB   | 10    |  | Malik Mohammad         |  |           |
| 18           | MANZOOR FAROOQ         | AB                                       | 1    | 2    | 3    | 4                                       | AB    | AB    | 5     | 6     | 7     | 8     | 9     | 10                    | 11   | AB    |  | Manzoor Farooq         |  |           |
| 19           | MIR ZAHID AKBAR        | 1                                        | AB   | 3    | AB   | 4                                       | 5     | 6     | AB    | 7     | 8     | AB    | 9     | AB                    | 10   | 11    |  | Mir Zahid Akbar        |  |           |
| 20           | MITLISH KUMAR KUSHWAHA | 1                                        | 2    | 3    | 4    | 5                                       | 6     | 7     | 8     | AB    | 9     | 10    | AB    | AB                    | 11   | 12    |  | Mitlesh Kumar Kushwaha |  |           |

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# MOTIVATION

**Course Objectives:** This course will develop awareness among learners of the importance of

Motivation. The programme will create in learners conditions in which they are willing to learn and work with zeal, initiative, interest, and enthusiasm. It will empower the students with diverse knowledge, expertise, skills and helps to develop the essential skills in life.

## Learning Outcomes

At the end of the course students are able to:

1. demonstrate different aspects on how people are motivated
2. value outcomes through improved performance, well-being, personal growth and a sense of purpose
3. propose a pathway to change the way of thinking, feeling and behaving and also willing to work with zeal, initiative, interest and enthusiasm

## UNIT I Motivation

- ☐ Concept; Types: Extrinsic and Intrinsic Motivation
- ☐ Principles and Importance of Motivation;
- ☐ Approaches to Motivation- Physiological, Behavioural, Cognitive and Social;
- ☐ Components of Motivation: (i) Activation, (ii) Persistence and (iii) Intensity

## UNIT II Skills for Promoting Motivation

- ☐ Fun classroom energizers for motivation
- ☐ Group work for team building
- ☐ Motivational Talks to Achieve Goals
- ☐ Celebrate personal achievements in the classroom

## UNIT III Improving Motivation

- ☐ 3 Motivation Activity Ideas for Students
- ☐ Strategies for Improving Motivation (i) Set Goals (ii) Develop a Timeline (iii) Assess your progress regularly (iv) Develop a supportsystem (v) Create rewards
- ☐ Preparation of a Motivational Worksheet
- ☐ Music and games for improving motivation

## References

Federmeier, K.D (2018)(Ed). Psychology of Learning and Motivation. United States: Elsevier Science.

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Hoffman, B. (2015). Motivation for Learning and Performance. Netherlands: Elsevier Science.

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2019-20**

| S.NO | ROLL NO | NAME                | BRANCH       | YEAR | VALUE ADDED COURSE       |
|------|---------|---------------------|--------------|------|--------------------------|
| 1    | 1708052 | ADITYA GUPTA        | B.ARCH       | 4TH  | MOTIVATIONAL ENHANCEMENT |
| 2    | 1708053 | ANIT KUMAR          | B.ARCH       | 4TH  | MOTIVATIONAL ENHANCEMENT |
| 3    | 1708054 | ANJALI              | B.ARCH       | 4TH  | MOTIVATIONAL ENHANCEMENT |
| 4    | 1708055 | HARJEEVAN KAUR      | B.ARCH       | 4TH  | MOTIVATIONAL ENHANCEMENT |
| 5    | 1708056 | ISHA SHARMA         | B.ARCH       | 4TH  | MOTIVATIONAL ENHANCEMENT |
| 6    | 1708058 | MEHAK ARORA         | B.ARCH       | 4TH  | MOTIVATIONAL ENHANCEMENT |
| 7    | 1708059 | NANDINI SINGH       | B.ARCH       | 4TH  | MOTIVATIONAL ENHANCEMENT |
| 8    | 1608409 | IMRAN FAROOQ        | B.TECH CIVIL | 4TH  | MOTIVATIONAL ENHANCEMENT |
| 9    | 1637793 | IMTIYAZ MANZOOR     | B.TECH CIVIL | 4TH  | MOTIVATIONAL ENHANCEMENT |
| 10   | 1608411 | JAHANGEER AHMAD MIR | B.TECH CIVIL | 4TH  | MOTIVATIONAL ENHANCEMENT |
| 11   | 1608412 | JUNAID NAZIR        | B.TECH CIVIL | 4TH  | MOTIVATIONAL ENHANCEMENT |
| 12   | 1608413 | JUNAID RASHID DAR   | B.TECH CIVIL | 4TH  | MOTIVATIONAL ENHANCEMENT |
| 13   | 1637794 | KASHIF QAMAR        | B.TECH CIVIL | 4TH  | MOTIVATIONAL ENHANCEMENT |
| 14   | 1608414 | KHEOKA YEPTHO       | B.TECH CIVIL | 4TH  | MOTIVATIONAL ENHANCEMENT |
| 15   | 1637795 | KYSAR BASHIR        | B.TECH CIVIL | 4TH  | MOTIVATIONAL ENHANCEMENT |
| 16   | 1637796 | LATEEF MAJEED       | B.TECH CIVIL | 4TH  | MOTIVATIONAL ENHANCEMENT |
| 17   | 1608415 | MALIK MOHAMMAD      | B.TECH CIVIL | 4TH  | MOTIVATIONAL ENHANCEMENT |
| 18   | 1637797 | MANZOOR FAROOQ      | B.TECH CIVIL | 4TH  | MOTIVATIONAL ENHANCEMENT |
| 19   | 1608416 | MIR ZAHID AKBAR     | B.TECH CIVIL | 4TH  | MOTIVATIONAL ENHANCEMENT |
| 20   | 1608418 | MITLESH KUMAR       | B.TECH CIVIL | 4TH  | MOTIVATIONAL ENHANCEMENT |



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## *Certificate of Participation*

This is to certify that \_\_\_\_\_ of Roll No. \_\_\_\_\_ Branch \_\_\_\_\_ Class \_\_\_\_\_ has completed Value Added Course Titled \_\_\_\_\_  
Course held from \_\_\_\_\_ to \_\_\_\_\_,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**



Academic Year 2019-20

Activity organized Report

Date : 13-04-2020

|                               |                                                                                                                                                                                                                                                                                                             |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                          |
| Title of Activity             | CLOUD INVENTOR                                                                                                                                                                                                                                                                                              |
| Programme                     | ENGG,MCA                                                                                                                                                                                                                                                                                                    |
| Date of Commencement          | 06-01-2020                                                                                                                                                                                                                                                                                                  |
| Date of Completion            | 13-04-2020                                                                                                                                                                                                                                                                                                  |
| Place of activity             | C BLOCK SEMINAR HALL                                                                                                                                                                                                                                                                                        |
| No of participants Enrolled   | 11                                                                                                                                                                                                                                                                                                          |
| No of participants completed  | 10                                                                                                                                                                                                                                                                                                          |
| Course Coordinator and Expert | GURINDER PAL SINGH                                                                                                                                                                                                                                                                                          |
| Summary of activity           | The value added course for the Even Semester During the Academic Year 2019-20 was Successfully Organized .The Course On "CLOUD INVENTOR " was covered .It Was aimed at various course students to understand cloud computing .A total of 11 students registered for the course and 10 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                             |

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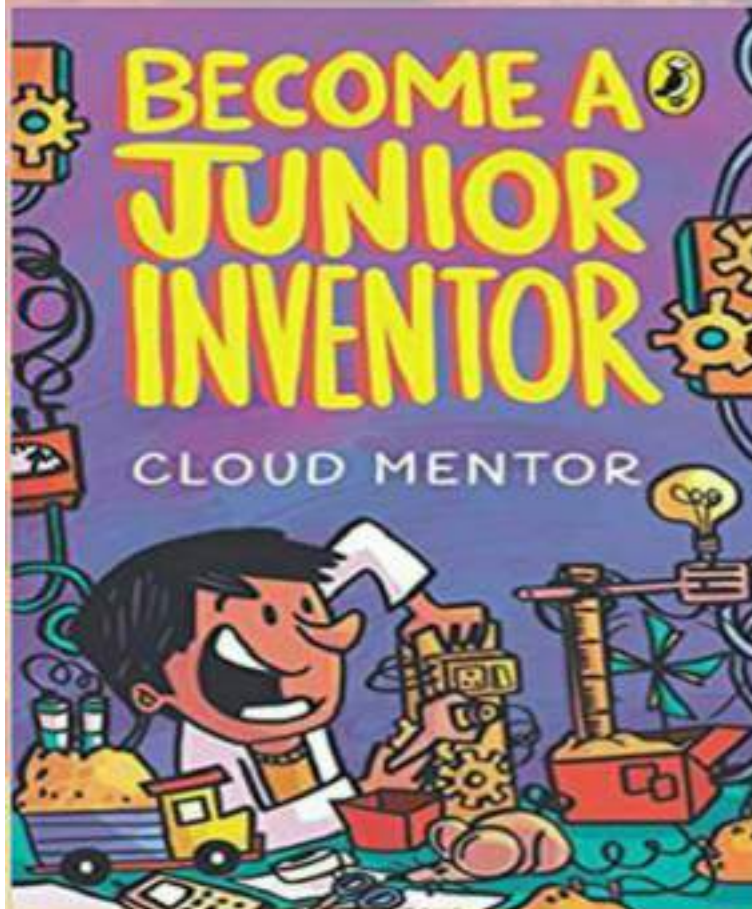


# IET BHADDAL

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## Cloud Inventor



*Value  
Added  
Course*

*Commencement  
from :-  
5/01/2020*

***Coordinator:-***

***Gurinder Pal Singh***

***Organised by:-***

***Department of Computer Science  
Engineering***

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ROPAR

IET/DEPT-CSE/19

Date: 06/1/2020

PRINCIPAL  
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Permission For Conducting value added course and allocate faculty member for same

It is to bring to your kind notice that following value added course is finalized For academic Year 2020-21. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class          | Contact Hrs | Date of Commencement | Expert             |
|------|----------------------------|----------------|-------------|----------------------|--------------------|
| 1    | CLOUD INVENTOR             | CSE,MCA,M.TECH | 30/45       | 06-01-2020           | GURINDER PAL SINGH |
|      |                            |                |             |                      |                    |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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Thanks and Regards  
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Course co-ordinator

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Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)





# IET BHADDAL

## TECHNICAL CAMPUS ROPAR

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DATE 06/11/20

### NOTICE

It is for the information of all students of - That CSE department is conducting value added course entitled -CLOUD INVENTOR from -06-01-2020. The Course is scheduled for -45 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

Course co-ordinator:

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Head of Department

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Head Of all Departments ( For Information)  
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Dept of CSB  
2019-20

| DURATION 3HRS/WEEK |                | ATTENDANCE SHEET FOR VALUE ADDED COURSES |       |       |       |      |                               |       |       |       |       |       |                       |      |      |       |                |                    |
|--------------------|----------------|------------------------------------------|-------|-------|-------|------|-------------------------------|-------|-------|-------|-------|-------|-----------------------|------|------|-------|----------------|--------------------|
| S.n                | Name           | 6/1/                                     | 13/1/ | 20/01 | 27/01 | 3//2 | Name Of Course CLOUD INVENTOR |       |       |       |       |       | Course Duration 45HRS |      |      |       |                | Total attendance % |
|                    |                |                                          |       |       |       |      | 10//2                         | 17/02 | 24/02 | 1-Mar | 8-Mar | 3/15/ | 22/03                 | 29/3 | 6//4 | 13//4 |                |                    |
| 1                  | AMBUJ RAI      | 1                                        | 2     | ab    | 3     | AB   | 4                             | 5     | 6     | AB    | AB    | 7     | 8                     | 9    | AB   | 10    | Am. buj Rai    |                    |
| 2                  | DAVINDER SINGH | AB                                       | 1     | 2     | 3     | 4    | AB                            | AB    | 5     | 6     | 7     | 8     | 9                     | 10   | AB   | 11    | Davinder Singh |                    |
| 3                  | DEEPAK         | 1                                        | AB    | 3     | AB    | 4    | 5                             | 6     | AB    | 7     | 8     | AB    | 9                     | AB   | 10   | 11    | Deepak Singh   |                    |
| 4                  | DEEPAK KUMAR   | 1                                        | 2     | 3     | 4     | 5    | 6                             | 7     | 8     | AB    | 9     | 10    | AB                    | AB   | 11   | 12    | Deepak Kumar   |                    |
| 5                  | Anuradha Hans  | 1                                        | 2     | ab    | 3     | AB   | 4                             | 5     | 6     | AB    | AB    | 7     | 8                     | 9    | AB   | 10    | Anuradha Hans  |                    |
| 6                  | Charanjit Kaur | AB                                       | 1     | 2     | 3     | 4    | AB                            | AB    | 5     | 6     | 7     | 8     | 9                     | 10   | AB   | 11    | Charanjit Kaur |                    |
| 7                  | DAMANPREET     | 1                                        | AB    | 3     | AB    | 4    | 5                             | 6     | AB    | 7     | 8     | AB    | 9                     | AB   | 10   | 11    | Damanpreet     |                    |
| 8                  | Kirandeep Kaur | 1                                        | 2     | 3     | 4     | 5    | 6                             | 7     | 8     | AB    | 9     | 10    | AB                    | AB   | 11   | 12    | Kirandeep Kaur |                    |
| 9                  | JASPREET KAUR  | 1                                        | AB    | 3     | AB    | 4    | 5                             | 6     | AB    | 7     | 8     | AB    | 9                     | AB   | 10   | 11    | Jaspreet Kaur  |                    |
| 10                 | MALEK AL HOSAN | 1                                        | 2     | 3     | 4     | 5    | 6                             | 7     | 8     | AB    | 9     | 10    | AB                    | AB   | 11   | 12    | Malek Al Hosan |                    |
| 11                 | NEHA BANSAL    | 1                                        | 2     | ab    | 3     | AB   | 4                             | 5     | 6     | AB    | AB    | 7     | 8                     | 9    | AB   | 10    | Neha           |                    |

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# CLOUD INVENTOR

**Introduction:** Objective, scope and outcome of the course.

Introduction Cloud Computing: Nutshell of cloud computing, Enabling Technology, Historical development, Vision, feature Characteristics and components of Cloud Computing. Challenges, Risks and Approaches of Migration into Cloud. Ethical Issue in Cloud Computing, Evaluating the Cloud's Business Impact and economics, Future of the cloud. Networking Support for Cloud Computing. Ubiquitous Cloud and the Internet of Things

Cloud Computing Architecture: Cloud Reference Model, Layer and Types of Clouds, Services models, Data centre Design and interconnection Network, Architectural design of Compute and Storage Clouds. Cloud Programming and Software: Fractures of cloud programming, Parallel and

distributed programming paradigms-Map Reduce, Hadoop, High-level Language for Cloud.

**Programming of Google App Engine.**

Virtualization Technology: Definition, Understanding and Benefits of Virtualization. Implementation Level of Virtualization, Virtualization Structure/Tools and Mechanisms, Hypervisor

VMware, KVM, Xen. Virtualization: of CPU, Memory, I/O Devices, Virtual Cluster and Resources

Management, Virtualization of Server, Desktop, Network, and Virtualization of data-Centre.

5 Securing the Cloud: Cloud Information security fundamentals, Cloud security services, Design principles, Policy Implementation, Cloud Computing Security Challenges, Cloud Computing Security

Architecture. Legal issues in Cloud Computing. Data Security in Cloud: Business Continuity and Disaster Recovery, Risk Mitigation, Understanding and Identification of Threats in Cloud, SLA Service Level Agreements, Trust Management

Cloud Platforms in Industry: Amazon web services, Google AppEngine, Microsoft Azure Design,

Aneka: Cloud Application Platform -Integration of Private and Public Clouds Cloud applications:

Protein structure prediction, Data Analysis, Satellite Image Processing, CRM 07

**Suggested Books**

- Dan C Marinescu, Cloud Computing, Theory and Practice, MK Elsevier
- Rajkumar Buyya, James Broberg, Andrzej M. Goscinski, Cloud Computing: Principles and Paradigms, Wiley
- Barrie Sosinsky, Cloud Computing Bible, Wiley

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- Jim Smith, Ravi Nair, Virtual Machines: Versatile Platforms for Systems and Processes, MK Elsevier

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2019-20**

| S.NO | ROLL NO | NAME            | BRANCH     | YEAR | VALUE ADDED COURSE |
|------|---------|-----------------|------------|------|--------------------|
| 1    | 1708113 | AMBUJ RAJ       | B.Tech CSE | 3rd  | CLOUD INVENTOR     |
| 2    | 1708114 | DAVINDER SINGH  | B.Tech CSE | 3rd  | CLOUD INVENTOR     |
| 3    | 1708115 | DEEPAK          | B.Tech CSE | 3rd  | CLOUD INVENTOR     |
| 4    | 1708116 | DEEPAK KUMAR    | B.Tech CSE | 3rd  | CLOUD INVENTOR     |
| 5    | 1807057 | Anuradha Hans   | MCA        | 2nd  | CLOUD INVENTOR     |
| 6    | 1807058 | Charanjit Kaur  | MCA        | 2nd  | CLOUD INVENTOR     |
| 7    | 1807059 | DAMANPREET KAUR | MCA        | 2nd  | CLOUD INVENTOR     |
| 8    | 1807061 | Kirandeep Kaur  | MCA        | 2nd  | CLOUD INVENTOR     |
| 9    | 1807031 | JASPREET KAUR   | M.Tech CSE | 2nd  | CLOUD INVENTOR     |
| 10   | 1807032 | MALEK AL HOSAN  | M.Tech CSE | 2nd  | CLOUD INVENTOR     |
| 11   | 1807033 | NEHA BANSAL     | M.Tech CSE | 2nd  | CLOUD INVENTOR     |

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## *Certificate of Participation*

This is to certify that \_\_\_\_\_ of Roll No. \_\_\_\_\_ Branch \_\_\_\_\_ Class \_\_\_\_\_ has completed Value Added Course Titled \_\_\_\_\_  
Course held from \_\_\_\_\_ to \_\_\_\_\_,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

Academic Year 2019-20

Activity organized Report

Date : 30-04-2020

|                               |                                                                                                                                                                                                                                                                                                                        |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                     |
| Title of Activity             | CLIMATE CHANGE                                                                                                                                                                                                                                                                                                         |
| Programme                     | ENGG,MCA,,ARCH                                                                                                                                                                                                                                                                                                         |
| Date of Commencement          | 22-01-2020                                                                                                                                                                                                                                                                                                             |
| Date of Completion            | 30-04-2020                                                                                                                                                                                                                                                                                                             |
| Place of activity             | C005                                                                                                                                                                                                                                                                                                                   |
| No of participants Enrolled   | 37                                                                                                                                                                                                                                                                                                                     |
| No of participants completed  | 29                                                                                                                                                                                                                                                                                                                     |
| Course Coordinator and Expert | MUNISH KUMAR                                                                                                                                                                                                                                                                                                           |
| Summary of activity           | The value added course for the Even Semester During the Academic Year 2019-20 was Successfully Organized .The Course On “ CLIMATE CHANGE” was covered .It Was aimed at various course students to understand which factors affect climate.A total of 37 students registered for the course and 29 completed the Course |
|                               |                                                                                                                                                                                                                                                                                                                        |

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# IET BHADDAL

Campus: Bhaddal, PO Mianpur, Distt. Ropar, Punjab-140103 (India)  
UGC approved (2f & 12B) | Affiliated to IKG-PTU (Jalandhar)

TECHNICAL  
CAMPUS  
ROPAR



## Climate change value added course

COMMENCEMENT  
FROM:-  
22/7/2019



**Coordinator:-**

**Munish  
Kumar**

Department  
of  
Architecture

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# IET BHADDAL

Campus: Bhaddal, PO Mianpur, Distt. Ropar, Punjab-140108 (India)  
UGC approved (2f & 12B) | Affiliated to IKG-PTU (Jalandhar)

**TECHNICAL  
CAMPUS  
ROPAR**

IET/AR/2019/034

DATE 22/01/2020

Principal  
Iet Bhaddal  
Ropar

**Permission For Conducting value added course and allocate faculty member for same**

It is to bring to your kind notice that following value added course is finalized For academic Year - 2019-20. The details of value added Course is as follow

| S.no | Name of Value Added Course | Class           | Contact Hrs | Date of Commencement | Expert       |
|------|----------------------------|-----------------|-------------|----------------------|--------------|
| 1    | CLIMATE CHANGE             | ARCH, ENGG, MCA | 30/45       | 22-01-2020           | MUNISH KUMAR |
|      |                            |                 |             |                      |              |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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Thanks and Regards

*Munish Kumar*  
Course co-ordinator

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email: [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)







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TECHNICAL  
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ROPAR

IET-NAC/A-cu/176

DATE 22/1/2020.

## NOTICE

It is for the information of all students of - That *Arch* department is conducting value added course entitled -CLIMATE CHANGE from -22-01-2020. The Course is scheduled for -45 hrs duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

Course co-ordinator:

*M. N. Sharma*

Head of Department  
*M. N. Sharma*

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Head Of all Departments ( For Information)  
IQAC  
ALL the notice boards

Phone no: +91-1881-244777, 244606, Fax: 01881-244749  
Email : [info@ietbhaddal.edu.in](mailto:info@ietbhaddal.edu.in) | Website: [www.ietbhaddal.edu.in](http://www.ietbhaddal.edu.in)



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| DURATION 3HRS/WEEK |                   | ATTENDANCE SHEET FOR VALUE ADDED COURSES |     |      |      |      |     |      |      |      |     |     |      | Course Duration 45HRS |      |    |                   | Total attendance % |
|--------------------|-------------------|------------------------------------------|-----|------|------|------|-----|------|------|------|-----|-----|------|-----------------------|------|----|-------------------|--------------------|
| Name               | 22/1              | 29/1                                     | 5/2 | 12/2 | 19/2 | 26/2 | 5/3 | 12/3 | 19/3 | 26/3 | 1/4 | 8/4 | 15/4 | 22/4                  | 29/4 |    |                   |                    |
| 1                  | Aishi Oberoi      | 1                                        | 2   | ab   | 3    | AB   | 4   | 5    | 6    | AB   | AB  | 7   | 8    | 9                     | AB   | 10 | Aishi Oberoi      |                    |
| 2                  | Aishwarya Shanker | AB                                       | 1   | 2    | 3    | 4    | AB  | AB   | 5    | 6    | 7   | 8   | 9    | 10                    | 11   | AB | Aishwarya Shanker |                    |
| 3                  | Anshul Jamwal     | 1                                        | AB  | 3    | AB   | 4    | 5   | 6    | AB   | 7    | 8   | AB  | 9    | AB                    | 10   | 11 | Anshul Jamwal     |                    |
| 4                  | Aradhana          | 1                                        | 2   | 3    | 4    | 5    | 6   | 7    | 8    | AB   | 9   | 10  | AB   | AB                    | 11   | 12 | Aradhana          |                    |
| 5                  | Avantika Mahajan  | 1                                        | 2   | ab   | 3    | AB   | 4   | 5    | 6    | AB   | AB  | 7   | 8    | 9                     | AB   | 10 | Avantika Mahajan  |                    |
| 6                  | Bhupender         | AB                                       | 1   | 2    | 3    | 4    | AB  | AB   | 5    | 6    | 7   | 8   | 9    | 10                    | 11   | AB | Bhupender         |                    |
| 7                  | Gurpreet Singh    | 1                                        | AB  | 3    | AB   | 4    | 5   | 6    | AB   | 7    | 8   | AB  | 9    | AB                    | 10   | 11 | Gurpreet Singh    |                    |
| 8                  | himraj            | 1                                        | 2   | 3    | 4    | 5    | 6   | 7    | 8    | AB   | 9   | 10  | AB   | AB                    | 11   | 12 | himraj            |                    |
| 9                  | ASHISH KUMAR      | 1                                        | AB  | 3    | AB   | 4    | 5   | 6    | AB   | 7    | 8   | AB  | 9    | AB                    | 10   | 11 | ASHISH KUMAR      |                    |
| 10                 | ATUL KUMAR        | 1                                        | 2   | 3    | 4    | 5    | 6   | 7    | 8    | AB   | 9   | 10  | AB   | AB                    | 11   | 12 | ATUL KUMAR        |                    |
| 11                 | GULAB SINGH       | 1                                        | 2   | ab   | 3    | AB   | 4   | 5    | 6    | AB   | AB  | 7   | 8    | 9                     | AB   | 10 | GULAB SINGH       |                    |
| 12                 | SAHIL HIRA        | AB                                       | 1   | 2    | 3    | 4    | AB  | AB   | 5    | 6    | 7   | 8   | 9    | 10                    | 11   | AB | SAHIL HIRA        |                    |
| 13                 | VIKAS SHARMA      | 1                                        | 2   | ab   | 3    | AB   | 4   | 5    | 6    | AB   | AB  | 7   | 8    | 9                     | AB   | 10 | VIKAS SHARMA      |                    |
| 14                 | VIKAS TIWARI      | AB                                       | 1   | 2    | 3    | 4    | AB  | AB   | 5    | 6    | 7   | 8   | 9    | 10                    | 11   | AB | VIKAS TIWARI      |                    |
| 15                 | AASHIQ MUSHTAQ    | 1                                        | AB  | 3    | AB   | 4    | 5   | 6    | AB   | 7    | 8   | AB  | 9    | AB                    | 10   | 11 | AASHIQ MUSHTAQ    |                    |
| 16                 | ABHISHEK RANA     | 1                                        | 2   | 3    | 4    | 5    | 6   | 7    | 8    | AB   | 9   | 10  | AB   | AB                    | 11   | 12 | ABHISHEK RANA     |                    |
| 17                 | AFTAB ALAM        | 1                                        | 2   | ab   | 3    | AB   | 4   | 5    | 6    | AB   | AB  | 7   | 8    | 9                     | AB   | 10 | AFTAB ALAM        |                    |
| 18                 | AJAY SINGH        | AB                                       | 1   | 2    | 3    | 4    | AB  | AB   | 5    | 6    | 7   | 8   | 9    | 10                    | 11   | AB | AJAY SINGH        |                    |
| 19                 | AMANDEEP SINGH    | 1                                        | AB  | 3    | AB   | 4    | 5   | 6    | AB   | 7    | 8   | AB  | 9    | AB                    | 10   | 11 | AMANDEEP SINGH    |                    |
| 20                 | RAJINDER KAUR     | 1                                        | 2   | 3    | 4    | 5    | 6   | 7    | 8    | AB   | 9   | 10  | AB   | AB                    | 11   | 12 | RAJINDER KAUR     |                    |
| 21                 | RANDHIR KUMAR     | 1                                        | 2   | ab   | 3    | AB   | 4   | 5    | 6    | AB   | AB  | 7   | 8    | 9                     | AB   | 10 | RANDHIR KUMAR     |                    |
| 22                 | RITU BALA         | AB                                       | 1   | 2    | 3    | 4    | AB  | AB   | 5    | 6    | 7   | 8   | 9    | 10                    | 11   | AB | RITU BALA         |                    |
| 23                 | SAHIL             | 1                                        | AB  | 3    | AB   | 4    | 5   | 6    | AB   | 7    | 8   | AB  | 9    | AB                    | 10   | 11 | SAHIL             |                    |
| 24                 | SAMEER AHMAD BABA | 1                                        | 2   | 3    | 4    | 5    | 6   | 7    | 8    | AB   | 9   | 10  | AB   | AB                    | 11   | 12 | SAMEER AHMAD BABA |                    |
| 25                 | SARABJEET SINGH   | 1                                        | 2   | ab   | 3    | AB   | 4   | 5    | 6    | AB   | AB  | 7   | 8    | 9                     | AB   | 10 | SARABJEET SINGH   |                    |
| 26                 | SHIVANI           | AB                                       | 1   | 2    | 3    | 4    | AB  | AB   | 5    | 6    | 7   | 8   | 9    | 10                    | 11   | AB | SHIVANI           |                    |
| 27                 | SHIVANSHU SINGH   | 1                                        | AB  | 3    | AB   | 4    | 5   | 6    | AB   | 7    | 8   | AB  | 9    | AB                    | 10   | 11 | SHIVANSHU SINGH   |                    |
| 28                 | SUMEET KUMAR      | 1                                        | 2   | 3    | 4    | 5    | 6   | 7    | 8    | AB   | 9   | 10  | AB   | AB                    | 11   | 12 | SUMEET KUMAR      |                    |
| 29                 | TANIA BHAWAN      | 1                                        | AB  | 3    | AB   | 4    | 5   | 6    | AB   | 7    | 8   | AB  | 9    | AB                    | 10   | 11 | TANIA BHAWAN      |                    |
| 30                 | UMA DEVI          | 1                                        | 2   | 3    | 4    | 5    | 6   | 7    | 8    | AB   | 9   | 10  | AB   | AB                    | 11   | 12 | UMA DEVI          |                    |
| 31                 | Charanjit Kaur    | 1                                        | 2   | ab   | 3    | AB   | 4   | 5    | 6    | AB   | AB  | 7   | 8    | 9                     | AB   | 10 | Charanjit Kaur    |                    |
| 32                 | DAMANPREET        | AB                                       | 1   | 2    | 3    |      | AB  | AB   | 5    | 6    | 7   | 8   | 9    | 10                    | 11   | AB | DAMANPREET        |                    |

# SYLLABUS CLIMATE CHANGE

## Course Objectives:

This course will develop awareness among learners of the importance of climate change . The programme will create in learners conditions in which they are willing to learn and work with zeal, initiative, interest, and enthusiasm. It will empower the students with diverse knowledge, expertise, skills and helps to develop the essential skills in life.

## Learning Outcomes

At the end of the course students are able to:

Learn the importance of environment and its care Students will learn how pollution causes impact on Climate change

## Contents

- 1 Intro to climate change
2. Global Warming and Climate Change
3. Biodiversity and Climate Change
4. Understanding the Sustainable Development Goals of the United Nations
- Tutorial - I
5. Bioremediations
6. International Policy Summits on Climate Change
7. Environmental Economists on Climate Change
8. Climate Change and its impact on Physical and Cultural Landscape
- Tutorial - II
9. Impact of Climate Change on Microbiota
10. Effect of Climate Change in Agricultural Crops and Plant Diseases
11. Effect of Climate Change on Human Health
12. Impact of Climate Change on Agri-farming
13. India's Climate Change Policy: Challenges and Recommendations
14. Interactive Summary Sessions
- Final Assessment/Tutorial

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2019-20**

| S.NO | ROLL NO | NAME              | BRANCH     | YEAR | VALUE ADDED COURSE |
|------|---------|-------------------|------------|------|--------------------|
| 1    | 1509942 | Aishi Oberoi      | B.Arch     | 5th  | CLIMATE CHANGE     |
| 2    | 1509943 | Aishwarya Shanker | B.Arch     | 5th  | CLIMATE CHANGE     |
| 3    | 1509945 | Anshul Jamval     | B.Arch     | 5th  | CLIMATE CHANGE     |
| 4    | 1509946 | Aradhana          | B.Arch     | 5th  | CLIMATE CHANGE     |
| 5    | 1509947 | Avantika Mahajan  | B.Arch     | 5th  | CLIMATE CHANGE     |
| 6    | 1509948 | Bhupender         | B.Arch     | 5th  | CLIMATE CHANGE     |
| 7    | 1509949 | Gurpreet Singh    | B.Arch     | 5th  | CLIMATE CHANGE     |
| 8    | 1509950 | himraj            | B.Arch     | 5th  | CLIMATE CHANGE     |
| 9    | 1608525 | ASHISH KUMAR      | B.Tech ECE | 4th  | CLIMATE CHANGE     |
| 10   | 1608526 | ATUL KUMAR        | B.Tech ECE | 4th  | CLIMATE CHANGE     |
| 11   | 1637821 | GULAB SINGH       | B.Tech ECE | 4th  | CLIMATE CHANGE     |
| 12   | 1608530 | SAHIL HIRA        | B.Tech ECE | 4th  | CLIMATE CHANGE     |
| 13   | 1608531 | VIKAS SHARMA      | B.Tech ECE | 4th  | CLIMATE CHANGE     |
| 14   | 1608532 | VIKAS TIWARI      | B.Tech ECE | 4th  | CLIMATE CHANGE     |
| 15   | 1608562 | AASHIQ MUSHTAQ    | B.Tech ME  | 4th  | CLIMATE CHANGE     |
| 16   | 1608564 | ABHISHEK RANA     | B.Tech ME  | 4th  | CLIMATE CHANGE     |
| 17   | 1608565 | AFTAB ALAM        | B.Tech ME  | 4th  | CLIMATE CHANGE     |
| 18   | 1608566 | AJAY SINGH        | B.Tech ME  | 4th  | CLIMATE CHANGE     |
| 19   | 1608569 | AMANDEEP SINGH    | B.Tech ME  | 4th  | CLIMATE CHANGE     |
| 20   | 1608496 | RAJINDER KAUR     | B.Tech CSE | 4th  | CLIMATE CHANGE     |
| 21   | 1608498 | RANDHIR KUMAR     | B.Tech CSE | 4th  | CLIMATE CHANGE     |
| 22   | 1608500 | RITU BALA         | B.Tech CSE | 4th  | CLIMATE CHANGE     |
| 23   | 1608501 | SAHIL             | B.Tech CSE | 4th  | CLIMATE CHANGE     |
| 24   | 1608502 | SAMEER AHMAD BABA | B.Tech CSE | 4th  | CLIMATE CHANGE     |
| 25   | 1608504 | SARABJEET SINGH   | B.Tech CSE | 4th  | CLIMATE CHANGE     |
| 26   | 1608506 | SHIVANI           | B.Tech CSE | 4th  | CLIMATE CHANGE     |
| 27   | 1608507 | SHIVANSHU SINGH   | B.Tech CSE | 4th  | CLIMATE CHANGE     |
| 28   | 1608508 | SUMEET KUMAR      | B.Tech CSE | 4th  | CLIMATE CHANGE     |
| 29   | 1608509 | TANIA BHAWAN      | B.Tech CSE | 4th  | CLIMATE CHANGE     |
| 30   | 1608510 | UMA DEVI          | B.Tech CSE | 4th  | CLIMATE CHANGE     |



|    |         |                  |     |     |                |
|----|---------|------------------|-----|-----|----------------|
| 31 | 1807058 | Charanjit Kaur   | MCA | 2nd | CLIMATE CHANGE |
| 32 | 1807059 | DAMANPREET KAUR  | MCA | 2nd | CLIMATE CHANGE |
| 33 | 1807061 | Kirandeep Kaur   | MCA | 2nd | CLIMATE CHANGE |
| 34 | 1807062 | NISHA            | MCA | 2nd | CLIMATE CHANGE |
| 35 | 1807063 | RAMANDEEP KAUR   | MCA | 2nd | CLIMATE CHANGE |
| 36 | 1807064 | RITIKA           | MCA | 2nd | CLIMATE CHANGE |
| 37 | 1807066 | SHUBHAM BHARDWAJ | MCA | 2nd | CLIMATE CHANGE |

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# IETBHADDAL

TECHNICAL  
CAMPUS  
ROPAR

Serial no -----

## *Certificate of Participation*

This is to certify that \_\_\_\_\_ of Roll No. \_\_\_\_\_ Branch \_\_\_\_\_ Class \_\_\_\_\_ has completed Value Added Course Titled \_\_\_\_\_  
Course held from \_\_\_\_\_ to \_\_\_\_\_,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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**Principal**

**Date of issue**

## Academic Year 2019-20

### Activity organized Report

Date : 30-04-2020

|                               |                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of activity              | Value Added Course                                                                                                                                                                                                                                                                                                                                                      |
| Title of Activity             | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES                                                                                                                                                                                                                                                                                                                         |
| Programme                     | EE,M.TECH,ME,CIVIL                                                                                                                                                                                                                                                                                                                                                      |
| Date of Commencement          | 23-01-2020                                                                                                                                                                                                                                                                                                                                                              |
| Date of Completion            | 30-04-2020                                                                                                                                                                                                                                                                                                                                                              |
| Place of activity             | D004                                                                                                                                                                                                                                                                                                                                                                    |
| No of participants Enrolled   | 45                                                                                                                                                                                                                                                                                                                                                                      |
| No of participants completed  | 38                                                                                                                                                                                                                                                                                                                                                                      |
| Course Coordinator and Expert | HARKAMAL JIT SINGH                                                                                                                                                                                                                                                                                                                                                      |
| Summary of activity           | The value added course for the Even Semester During the Academic Year 2019-20 was Successfully Organized .The Course On “MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES ” was covered .It Was aimed at various course students to understand importance of maintainence and how to do it.A total of 45 students registered for the course and 38 completed the Course. |
|                               |                                                                                                                                                                                                                                                                                                                                                                         |

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## Making & Maintenance of Electrical

value

Appliances

added  
course



Commencement

From:-  
23/01/2020

Coordinator:-  
Harkamaljit

Department  
of Electrical  
engineering

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Date: 23/11/2020

PRINCIPAL  
IET BHADDAL  
ROPAR

**Permission For Conducting value added course and allocate faculty member for same**

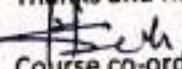
It is to bring to your kind notice that following value added course is finalized For academic Year 2019-20. The details of value added Course is as follow

| S.no | Name of Value Added Course                      | Class                   | Contact Hrs | Date of Commencement | Expert            |
|------|-------------------------------------------------|-------------------------|-------------|----------------------|-------------------|
| 1    | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES | EE,MTECH<br>EE,ME,CIVIL | 30/45       | 23-01-2020           | HARKAMALJIT SINGH |
|      |                                                 |                         |             |                      |                   |

It is requested to kindly approve the faculty Expert and Course content of aftermentioned value added course and Grant permission for the conduct of same

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Thanks and Regards  
  
Course co-ordinator



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UGC approved (2f & 12B) | Affiliated to IKG-PTU (Jalandhar)

IET/VAC/EE/119

DATE 23/1/2020

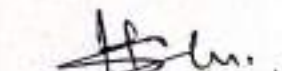
## NOTICE

It is for the information of all students of - That department is conducting value added course entitled **-MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES** from **-23-01-2020**. The Course is scheduled for **-45 hrs** duration. The value added course aims at value addition and holistic development of the participants, interested students are advised to register themselves with course coordinator. The Certificate will be provided to students after successful completion of course with Minimum 65% attendance

  
Course co-ordinator:

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Head of Department

Cc : principal ( For Kind information please)  
Head Of all Departments ( For Information)  
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Dept of EE  
2019-20

| ATTENDANCE SHEET FOR VALUE ADDED COURSES |                   |                                                                                |      |     |      |      |      |     |      |      |      |     |      |      |      |      | SIGNATURE       |
|------------------------------------------|-------------------|--------------------------------------------------------------------------------|------|-----|------|------|------|-----|------|------|------|-----|------|------|------|------|-----------------|
| Duration 3HR                             |                   | Name Of Course MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES Course Duration |      |     |      |      |      |     |      |      |      |     |      |      |      |      |                 |
| S.no                                     | Name              | 23/1                                                                           | 30/1 | 6/2 | 13/2 | 20/2 | 27/2 | 6/3 | 13/3 | 20/3 | 27/3 | 3/4 | 10/4 | 17/4 | 24/4 | 31/4 |                 |
| 1                                        | KANCHAN SHARMA    | 1                                                                              | 2    | ab  | 3    | AB   | 4    | 5   | 6    | AB   | AB   | 7   | 8    | 9    | AB   | 10   | Kanchan         |
| 2                                        | KIRANJEET KAUR    | AB                                                                             | 1    | 2   | 3    | 4    | AB   | AB  | 5    | 6    | 7    | 8   | 9    | 10   | 11   | AB   | Kiranjeet K     |
| 3                                        | KUNIK KUMAR       | 1                                                                              | AB   | 3   | AB   | 4    | 5    | 6   | AB   | 7    | 8    | AB  | 9    | AB   | 10   | 11   | Kunik Kumar     |
| 4                                        | LAKSHYA KASHYAP   | 1                                                                              | 2    | 3   | 4    | 5    | 6    | 7   | 8    | AB   | 9    | 10  | AB   | AB   | 11   | 12   | Lakshya         |
| 5                                        | MALKIT SINGH      | 1                                                                              | 2    | ab  | 3    | AB   | 4    | 5   | 6    | AB   | AB   | 7   | 8    | 9    | AB   | 10   | Malkit          |
| 6                                        | MANINDER KAUR     | AB                                                                             | 1    | 2   | 3    | 4    | AB   | AB  | 5    | 6    | 7    | 8   | 9    | 10   | 11   | AB   | Manjinder Singh |
| 7                                        | MANJINDER SINGH   | 1                                                                              | AB   | 3   | AB   | 4    | 5    | 6   | AB   | 7    | 8    | AB  | 9    | AB   | 10   | 11   | Manjinder Singh |
| 8                                        | MANPREET KAUR     | 1                                                                              | 2    | 3   | 4    | 5    | 6    | 7   | 8    | AB   | 9    | 10  | AB   | AB   | 11   | 12   | Manpreet        |
| 9                                        | MUKUL SHARMA      | 1                                                                              | AB   | 3   | AB   | 4    | 5    | 6   | AB   | 7    | 8    | AB  | 9    | AB   | 10   | 11   | Mukul           |
| 10                                       | NAVJOT KAUR       | 1                                                                              | 2    | 3   | 4    | 5    | 6    | 7   | 8    | AB   | 9    | 10  | AB   | AB   | 11   | 12   | Navjot          |
| 11                                       | PALLVI CHAUHAN    | 1                                                                              | 2    | ab  | 3    | AB   | 4    | 5   | 6    | AB   | AB   | 7   | 8    | 9    | AB   | 10   | Pallvi          |
| 12                                       | PARUL VERMA       | AB                                                                             | 1    | 2   | 3    | 4    | AB   | AB  | 5    | 6    | 7    | 8   | 9    | 10   | 11   | AB   | Parul           |
| 13                                       | PARWINDERJIT KAUR | 1                                                                              | 2    | ab  | 3    | AB   | 4    | 5   | 6    | AB   | AB   | 7   | 8    | 9    | AB   | 10   | Parwinderjit    |
| 14                                       | PAWAN KUMAR       | AB                                                                             | 1    | 2   | 3    | 4    | AB   | AB  | 5    | 6    | 7    | 8   | 9    | 10   | 11   | AB   | Pawan Kumar     |
| 15                                       | SAHIL KUMAR       | 1                                                                              | AB   | 3   | AB   | 4    | 5    | 6   | AB   | 7    | 8    | AB  | 9    | AB   | 10   | 11   | Sahil           |
| 16                                       | SAURAV SUMAN      | X                                                                              | X    | X   | X    | X    | X    | X   | X    | X    | X    | X   | X    | X    | X    | X    | Saurav          |
| 17                                       | SIPPU KUMAR       | 1                                                                              | 2    | ab  | 3    | AB   | 4    | 5   | 6    | AB   | AB   | 7   | 8    | 9    | AB   | 10   | Sippu           |
| 18                                       | SUKHPREET SINGH   | AB                                                                             | 1    | 2   | 3    | 4    | AB   | AB  | 5    | 6    | 7    | 8   | 9    | 10   | 11   | AB   | Sukhpreet       |
| 19                                       | SURAJ KUMAR SINGH | 1                                                                              | AB   | 3   | AB   | 4    | 5    | 6   | AB   | 7    | 8    | AB  | 9    | AB   | 10   | 11   | Suraj Kumar     |
| 20                                       | TARUN KUMAR       | 1                                                                              | 2    | 3   | 4    | 5    | 6    | 7   | 8    | AB   | 9    | 10  | AB   | AB   | 11   | 12   | Tarun           |
| 21                                       | VINOD KUMAR       | 1                                                                              | 2    | ab  | 3    | AB   | 4    | 5   | 6    | AB   | AB   | 7   | 8    | 9    | AB   | 10   | Vinod           |
| 22                                       | WAHID HUSSAIN     | AB                                                                             | 1    | 2   | 3    | 4    | AB   | AB  | 5    | 6    | 7    | 8   | 9    | 10   | 11   | AB   | Wahid           |
| 23                                       | ADARSH THAKUR     | 1                                                                              | AB   | 3   | AB   | 4    | 5    | 6   | AB   | 7    | 8    | AB  | 9    | AB   | 10   | 11   | Adarsh          |
| 24                                       | AKASH CHOUDHARY   | 1                                                                              | 2    | 3   | 4    | 5    | 6    | 7   | 8    | AB   | 9    | 10  | AB   | AB   | 11   | 12   | Akash           |
| 25                                       | AKASH RANA        | 1                                                                              | 2    | ab  | 3    | AB   | 4    | 5   | 6    | AB   | AB   | 7   | 8    | 9    | AB   | 10   | Akash Rana      |
| 26                                       | ANKIT SHARMA      | AB                                                                             | 1    | 2   | 3    | 4    | AB   | AB  | 5    | 6    | 7    | 8   | 9    | 10   | 11   | AB   | Ankit           |

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# Maintenance and Repair of Household

## Electrical Appliances

### Course Objectives

1. To comprehend the fundamental components of electronics and electrical gadgets.
2. To comprehend the layout and wiring of the home.
3. To comprehend the fundamentals of safety procedures.
4. To comprehend the different concepts of household appliances.
5. To estimate the age or predict the quality of household equipment.
6. To fix small flaws and do layman's checks.
7. To diagnose the flaws in the most widely used home appliances.
8. To comprehend the methods used in sophisticated home equipment maintenance.

### Course Outcomes

By the end of the course, the students will be able to

1. Make recommendations and implement corrective actions for the household equipment.
2. Use the appropriate tools to perform technical checks and resolve issues.
3. Recognize the methods used in sophisticated home equipment repair
4. Basic electronics and electrical appliance maintenance and repair.
5. Identification of safety equipment.
6. Fixing and maintaining the TV, cooler, fan, iron, LED bulbs, and many other items.
7. Capable of performing household chores and repairs.
8. Put together the TV, fans, LED lights, inverter, etc.

### THEORY

#### COURSE CONTENTS:

##### Unit: I- Basic safety practices:

Safety Practices; Fires in electrical Circuits & Precautions, FireExtinguishers& its types, General Safety of Tools & equipment, Rescueof person who is in contact with live wire, Treat a person for electricshock/ injury, Protective clothing: leather or asbestos gloves, flame proofaprons, flame proof overalls buttoned to neck, cuffless (without folds),trousers, reinforced footwear, helmets/hard hats, cap and shoulder covers,ear defenders/plugs, safety boots, glasses/goggles/visors, Safe workingpractices: using protective clothing and equipment; putting up and readingsafety signs; handle tools in the correct manner and store and maintainthem properly; while working with electricity take all electricalprecautions like insulated clothing, adequate equipment insulation, use ofcontrol equipment, dry work area, switch off the power supply when notrequired, etc.; safe lifting and carrying practices; use equipment that isworking properly and is well Maintained; take due measures for safetywhile working at heights, etc.

##### Unit: II- General idea on Various Electrical Measuring Instruments/Components



Types, Multimeter (Digital/ Analog), Energy meter (Digital/analog), Insulation Tester (Megger), Earth tester. Ammeter, voltmeter, Different types of switches, fuse, thermostat, heating elements, registers, conductors, insulators, capacitors, wires and cables (for up to 15 amp) symbol of various components.

### **Unit: III- Demonstration of Heating and Magnetic Appliances**

Demonstration of Heating Appliances and their applications. (Heating Appliances –type, Working Principle, Uses.) Demonstration of Magnetic Appliances and their applications (Magnetic Appliances- Type, working principle, uses.)

### **Unit: IV- Maintenance and Repair of heating and motorised appliances**

Identification, working and specification of each part. Repairing for some common problems, replacement of coil, insulators, thermostat etc. for the following:

- (a) Repair & maintenance of room heater.
- (b) Repair & maintenance of electric iron.
- (c) Repair & maintenance of electric stove (Induction), electric kettle.
- (d) Repair & maintenance of ceiling and table fan.
- (e) Repair & maintenance of domestic pump motor.
- (f) Repair & maintenance of water cooler
- (g) Repair & maintenance of washing machine.

### **Unit: V- Assemble of Some Appliances**

Assemble different type of inverters circuit & its measurements. Assemble battery charger circuit used in inverter with protection circuit. Assemble Online/Offline UPS & its measurements.

Test, fault finding & repair of given power supply. (DC to AC converter, Types of inverter, its different blocks & oscillators circuits Battery chargers & its protection circuit. UPS working principles of- line & On line UPS circuit used in UPS.

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**1.2.2. Average percentage of students enrolled in Value added/Add on /certified Programs as against the total no of students during 2019-20**

| S.NO | ROLL NO | NAME            | BRANCH     | YEAR | VALUE ADDED COURSE                              |
|------|---------|-----------------|------------|------|-------------------------------------------------|
| 1    | 1608474 | KANCHAN SHARMA  | B.Tech CSE | 4TH  | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 2    | 1608475 | KIRANJEET KAUR  | B.Tech CSE | 4TH  | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 3    | 1608476 | KUNIK KUMAR     | B.Tech CSE | 4TH  | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 4    | 1608477 | LAKSHYA KASHYAP | B.Tech CSE | 4TH  | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 5    | 1608479 | MALKIT SINGH    | B.Tech CSE | 4TH  | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 6    | 1608481 | MANINDER KAUR   | B.Tech CSE | 4TH  | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 7    | 1608482 | MANJINDER SINGH | B.Tech CSE | 4TH  | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 8    | 1608484 | MANPREET KAUR   | B.Tech CSE | 4TH  | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 9    | 1608486 | MUKUL SHARMA    | B.Tech CSE | 4TH  | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 10   | 1608487 | NAVJOT KAUR     | B.Tech CSE | 4TH  | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 11   | 1608488 | PALLVI          | B.Tech CSE | 4TH  | MAKING AND                                      |



# IET BHADDAL

Campus: Bhaddal, PO Mianpur, Distt. Ropar, Punjab-140108 (India)  
UGC approved (2f & 12B) | Affiliated to IKG-PTU (Jalandhar)

## TECHNICAL CAMPUS ROPAR

|    |         |                   |              |     |                                                 |
|----|---------|-------------------|--------------|-----|-------------------------------------------------|
|    |         | CHAUHAN           |              |     | MAINTAINACE OF ELECTRICAL APPLIANCES            |
| 12 | 1608489 | PARUL VERMA       | B.Tech CSE   | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 13 | 1608490 | PARWINDERJIT KAUR | B.Tech CSE   | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 14 | 1637809 | PAWAN KUMAR       | B.Tech CSE   | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 15 | 1608594 | SAHIL KUMAR       | B.tech ME    | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 16 | 1608595 | SAURAV SUMAN      | B.tech ME    | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 17 | 1608597 | SIPPU KUMAR       | B.tech ME    | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 18 | 1608598 | SUKHPREET SINGH   | B.tech ME    | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 19 | 1608600 | SURAJ KUMAR SINGH | B.tech ME    | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 20 | 1608602 | TARUN KUMAR       | B.tech ME    | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 21 | 1608604 | VINOD KUMAR       | B.tech ME    | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 22 | 1637830 | WAHID HUSSAIN     | B.tech ME    | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 23 | 1608397 | ADARSH THAKUR     | B.TECH CIVIL | 4TH | MAKING AND MAINTAINACE OF                       |



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## TECHNICAL CAMPUS ROPAR

|    |         |                     |              |     |                                                          |
|----|---------|---------------------|--------------|-----|----------------------------------------------------------|
|    |         |                     |              |     | ELECTRICAL<br>APPLIANCES                                 |
| 24 | 1608398 | AKASH<br>CHOUDHARY  | B.TECH CIVIL | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 25 | 1608399 | AKASH RANA          | B.TECH CIVIL | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 26 | 1608400 | ANKIT SHARMA        | B.TECH CIVIL | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 27 | 1608401 | AQIB BASHIR         | B.TECH CIVIL | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 28 | 1608402 | AZHAR MUSTAQ        | B.TECH CIVIL | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 29 | 1637792 | BUSMA JAN           | B.TECH CIVIL | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 30 | 1608403 | CHANDAN<br>KUMAR    | B.TECH CIVIL | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 31 | 1608404 | DEEPAK KUMAR        | B.TECH CIVIL | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 32 | 1608405 | DHARAM PAL          | B.TECH CIVIL | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 33 | 1608406 | DIPESH KUMAR<br>JHA | B.TECH CIVIL | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 34 | 1608408 | HIMANSHU<br>MEHTA   | B.TECH CIVIL | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL<br>APPLIANCES |
| 35 | 1637815 | ABHISHEK            | B.TECH EE    | 4TH | MAKING AND<br>MAINTAINACE OF<br>ELECTRICAL               |



|    |         |                 |            |     | APPLIANCES                                      |
|----|---------|-----------------|------------|-----|-------------------------------------------------|
| 36 | 1608514 | ARSHDEEP SINGH  | B.TECH EE  | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 37 | 1608515 | ARYAN           | B.TECH EE  | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 38 | 1608407 | GURSEWAK SINGH  | B.TECH EE  | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 39 | 1637816 | KARAN KATARIA   | B.TECH EE  | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 40 | 1608521 | KARTIK JASWAL   | B.TECH EE  | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 41 | 1637799 | NSIBAMBI HUSAAN | B.TECH EE  | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 42 | 1637817 | PARWINDER SINGH | B.TECH EE  | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 43 | 1637819 | TARANJEET SINGH | B.TECH EE  | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 44 | 1608523 | Vishal Kumar    | B.TECH EE  | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |
| 45 | 1608532 | VIKAS TIWARI    | B.TECH ECE | 4TH | MAKING AND MAINTAINACE OF ELECTRICAL APPLIANCES |

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## *Certificate of Participation*

This is to certify that \_\_\_\_\_ of Roll No. \_\_\_\_\_ Branch \_\_\_\_\_ Class \_\_\_\_\_ has completed Value Added Course Titled \_\_\_\_\_  
Course held from \_\_\_\_\_ to \_\_\_\_\_,

CONDUCTED BY \_\_\_\_\_

**Resource Person**

**Head of Department**

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