



# Vidya Jyothi Institute of Technology

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

## 2.3.1

*Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences*

A handwritten signature in green ink, appearing to read 'A. Prasad'.

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## DIFFERENT TEACHING METHODS IMPLEMENTED

| S.No | Name of the Teaching method  | S.No | Name of the Teaching method |
|------|------------------------------|------|-----------------------------|
| 1    | Hackathons                   | 19   | MOOCs                       |
| 2    | Workshops                    | 20   | Google Classroom            |
| 3    | Seminars                     | 21   | Project based learning      |
| 4    | Virtual Lab                  | 22   | Real time case studies      |
| 5    | Simulation                   | 23   | Worksheets                  |
| 6    | Role play                    | 24   | PPT                         |
| 7    | Review web literature        | 25   | Kahoot                      |
| 8    | Video                        | 26   | Mind map                    |
| 9    | Demonstration                | 27   | Journal Review              |
| 10   | Activity based learning      | 28   | Stump your partner          |
| 11   | Jigsaw                       | 29   | Open book test              |
| 12   | Think- Pair- Share           | 30   | Proto-type model            |
| 13   | Flipped Classroom            | 31   | Crosswords                  |
| 14   | Group Discussion             | 32   | Research Projects           |
| 15   | Guest lecture                | 33   | Language games              |
| 16   | Professional Practice school | 34   | Viva                        |
| 17   | Debate                       | 35   | Poster Presentation         |
| 18   | Peer learning groups         | 36   | Public Speaking             |

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## COLLEGE LEVEL SUMMARY

| Program | Experiential |    |    |   |   |   |    |    | Participative |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Problem Solving |    |    |    |    |    |    |    |    |  |
|---------|--------------|----|----|---|---|---|----|----|---------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------------|----|----|----|----|----|----|----|----|--|
|         | 1            | 2  | 3  | 4 | 5 | 6 | 7  | 27 | 8             | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 24 | 25 | 26 | 28 | 33 | 35 | 21              | 22 | 23 | 29 | 30 | 31 | 32 | 34 | 36 |  |
| CIVIL   | 1            | 2  | 7  |   | 3 | 2 | 3  |    | 3             | 1  |    |    |    |    |    |    |    |    |    |    |    | 4  |    |    |    |    |    |                 | 1  |    |    |    |    |    |    |    |  |
| CSE     | 2            | 1  | 3  |   | 1 | 3 | 1  | 1  | 2             | 3  | 4  | 1  | 2  | 2  |    |    | 2  |    | 2  |    |    | 6  |    |    |    | 1  | 1  | 1               | 2  |    |    | 1  | 2  | 2  |    | 4  |  |
| EEE     | 2            | 2  | 1  | 1 |   | 2 |    | 1  |               | 3  | 1  |    | 1  |    | 2  |    |    |    | 3  |    | 1  | 4  |    |    |    |    |    | 1               | 2  |    |    | 3  | 2  | 2  | 1  | 1  |  |
| ECE     |              |    |    | 1 | 1 | 2 |    |    |               | 1  |    |    | 1  |    |    |    |    |    |    | 1  | 1  | 7  | 2  | 4  | 3  |    | 1  |                 | 1  | 7  |    |    |    |    | 1  |    |  |
| ME      | 2            | 1  | 2  |   | 3 |   | 1  | 1  | 1             |    |    | 1  | 2  |    | 2  |    | 1  |    | 1  |    |    | 8  | 1  |    | 2  |    |    | 2               | 2  |    | 1  | 2  | 1  |    | 1  |    |  |
| IT      | 2            | 1  | 3  |   |   |   | 1  | 1  | 1             | 3  | 2  | 1  | 2  | 2  |    | 1  | 2  |    | 1  |    |    | 6  | 1  |    | 1  |    |    | 2               |    |    | 1  | 2  | 2  | 1  | 5  | 2  |  |
| H&S     | 1            | 2  |    | 4 |   |   | 4  | 1  | 6             |    | 5  | 3  | 2  | 3  |    | 2  |    |    |    | 4  |    | 4  |    |    |    |    | 3  | 2               |    |    | 2  |    | 2  | 2  | 1  | 2  |  |
| MBA     |              | 2  | 4  |   |   |   |    |    |               |    | 3  |    |    |    | 2  |    |    | 1  |    |    | 1  | 4  |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |  |
| Total   | 10           | 11 | 20 | 6 | 8 | 9 | 10 | 5  | 13            | 11 | 15 | 6  | 10 | 7  | 6  | 3  | 5  | 1  | 7  | 5  | 3  | 43 | 4  | 4  | 7  | 4  | 4  | 7               | 6  | 9  | 3  | 11 | 9  | 5  | 12 | 6  |  |

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## DEPARTMENT OF CIVIL ENGINEERING

| Course/<br>Teaching<br>method    | Experiential |   |   |   |   |   |   | Participative |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Problem Solving |    |    |    |    |    |    |    |    |    |    |  |
|----------------------------------|--------------|---|---|---|---|---|---|---------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------------|----|----|----|----|----|----|----|----|----|----|--|
|                                  | 1            | 2 | 3 | 4 | 5 | 6 | 7 | 8             | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25              | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |
| II-I Semester                    |              |   |   |   |   |   |   |               |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |  |
| Engineering                      |              |   | ✓ |   | ✓ |   |   |               |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |  |
| Geology                          |              |   |   |   |   |   |   |               |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |  |
| Fluid<br>Mechanics               |              |   | ✓ |   |   |   |   |               |   |    |    |    |    |    |    |    |    |    |    |    | ✓  |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |  |
| II-II Semester                   |              |   |   |   |   |   |   |               |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |  |
| SA-I                             |              | ✓ |   |   |   |   |   | ✓             |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |  |
| BMCP                             | ✓            |   | ✓ |   |   | ✓ |   |               |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |  |
| Strength of<br>Materials-II      |              |   | ✓ |   |   |   |   |               |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    | ✓  |    |    |    |    |    |    |    |    |  |
| III-I Semester                   |              |   |   |   |   |   |   |               |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |  |
| DTE                              |              |   | ✓ |   | ✓ |   |   |               | ✓ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |  |
| DRTS                             |              |   |   |   |   |   | ✓ |               |   |    |    |    |    |    |    |    |    |    |    |    | ✓  |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |  |
| SMART<br>CITY                    |              |   |   |   |   |   |   | ✓             |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |  |
| III-II Semester                  |              |   |   |   |   |   |   |               |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |  |
| Highway<br>Engineering           |              |   |   |   |   |   | ✓ |               |   |    |    |    |    |    |    |    |    |    |    |    | ✓  |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |  |
| Environment<br>al<br>Engineering |              | ✓ |   |   |   |   | ✓ |               |   |    |    |    |    |    |    |    |    |    |    |    | ✓  |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |  |
| Green<br>Building<br>Technology  |              |   | ✓ |   |   |   |   |               |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |  |
| IV-I Semester                    |              |   |   |   |   |   |   |               |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |  |
| IEE                              |              |   | ✓ |   | ✓ | ✓ |   | ✓             |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |  |

*A. Kumar*

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## DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

| Course/<br>Teaching<br>method      | Experiential |   |   |   |   |   |   | Participative |   |    |    |    |    |    |    |    |    |    |    |    |    | Problem Solving |    |    |    |    |    |    |    |    |    |
|------------------------------------|--------------|---|---|---|---|---|---|---------------|---|----|----|----|----|----|----|----|----|----|----|----|----|-----------------|----|----|----|----|----|----|----|----|----|
|                                    | 1            | 2 | 3 | 4 | 5 | 6 | 7 | 8             | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22              | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| <b>II-I Semester</b>               |              |   |   |   |   |   |   |               |   |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |
| PYTHON                             |              |   |   |   |   |   |   |               | ✓ | ✓  |    |    |    |    |    |    |    |    |    | ✓  |    |                 |    |    | ✓  |    |    |    |    |    | ✓  |
| <b>II-II Semester</b>              |              |   |   |   |   |   |   |               |   |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |
| JAVA                               |              |   |   |   | ✓ |   |   | ✓             | ✓ |    |    |    | ✓  |    |    |    | ✓  |    |    |    |    |                 | ✓  |    |    |    |    | ✓  |    |    |    |
| DAA                                |              |   |   |   |   | ✓ |   |               |   |    |    |    |    |    |    |    |    |    |    |    |    |                 | ✓  |    |    |    |    |    |    |    |    |
| SOFTWARE<br>ENGINEERING            |              |   |   |   |   |   |   |               |   |    |    | ✓  |    |    |    | ✓  |    |    | ✓  |    |    |                 |    |    |    |    |    |    |    |    |    |
| DBMS                               |              |   |   |   |   |   |   |               |   | ✓  |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |
| <b>III-I Semester</b>              |              |   |   |   |   |   |   |               |   |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |
| OPERATING<br>SYSTEMS               | ✓            |   | ✓ |   |   |   |   |               | ✓ |    |    | ✓  |    |    |    |    |    |    | ✓  |    |    |                 |    |    |    |    | ✓  |    |    | ✓  |    |
| COMPUTER<br>NETWORKS               |              | ✓ |   |   |   | ✓ |   | ✓             |   | ✓  |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |
| <b>III-II Semester</b>             |              |   |   |   |   |   |   |               |   |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |
| WEB<br>TECHNOLOGI<br>ES            |              |   |   |   |   |   | ✓ |               | ✓ |    |    |    |    |    | ✓  |    |    |    | ✓  |    |    |                 |    |    |    |    |    |    |    | ✓  |    |
| COMPILER<br>DESIGN                 |              |   |   |   |   | ✓ |   |               |   |    |    |    |    |    |    |    |    |    |    |    |    | ✓               |    |    |    | ✓  |    |    |    |    |    |
| DATAWARE<br>HOUSING<br>DATA MINING |              |   | ✓ |   |   |   |   |               |   |    | ✓  |    |    |    |    |    |    |    | ✓  |    |    |                 |    | ✓  |    |    |    |    |    |    |    |
| <b>IV-I Semester</b>               |              |   |   |   |   |   |   |               |   |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |
| BIG DATA<br>ANALYTICS              | ✓            |   | ✓ |   |   |   |   |               |   | ✓  |    |    |    |    |    |    |    |    | ✓  |    |    |                 |    |    |    |    |    | ✓  |    |    |    |
| MAD                                |              |   |   |   |   |   |   |               |   |    | ✓  |    |    |    | ✓  |    |    |    |    |    |    |                 |    |    |    |    | ✓  |    |    | ✓  |    |

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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

| Course/<br>Teaching<br>method     | Experiential |   |   |   |   |   |   | Participative |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | Problem Solving |   |   |   |   |   |   |   |   |   |  |  |
|-----------------------------------|--------------|---|---|---|---|---|---|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----------------|---|---|---|---|---|---|---|---|---|--|--|
|                                   | 1            | 2 | 3 | 4 | 5 | 6 | 7 | 2             | 8 | 9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 35 | 2               | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |   |  |  |
|                                   |              |   |   |   |   |   |   | 7             |   |   | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 4 | 5 | 6 | 8 | 3  |                 | 1 | 2 | 3 | 9 | 0 | 1 | 2 | 4 | 6 |  |  |
| II-I Semester                     |              |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |                 |   |   |   |   |   |   |   |   |   |  |  |
| Network Analysis                  |              |   | ✓ |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |                 | ✓ |   |   |   | ✓ |   |   |   |   |  |  |
| Power Systems-I                   | ✓            |   |   |   |   |   |   |               |   | ✓ |   |   |   |   | ✓ |   |   | ✓ |   |   | ✓ |   |   |   |   |    |                 |   |   |   |   |   |   |   | ✓ |   |  |  |
| II-II Semester                    |              |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |                 |   |   |   |   |   |   |   |   |   |  |  |
| Electrical Machines-II            |              |   |   | ✓ |   |   |   |               |   | ✓ |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |                 |   |   |   | ✓ |   |   | ✓ |   |   |  |  |
| Control Systems                   | ✓            |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   | ✓ | ✓ |   |   |   |   |    | ✓               |   |   |   |   |   |   |   |   |   |  |  |
| III-I Semester                    |              |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |                 |   |   |   |   |   |   |   |   |   |  |  |
| Power Electronics                 |              |   |   |   |   |   |   | ✓             |   |   |   |   | ✓ |   |   |   |   |   |   |   |   |   |   |   |   |    |                 |   |   |   |   | ✓ |   |   |   |   |  |  |
| High Voltage Engineering          |              | ✓ |   |   |   | ✓ |   |               |   | ✓ |   |   |   |   |   |   |   |   |   |   | ✓ |   |   |   |   |    |                 |   |   |   |   |   |   |   |   |   |  |  |
| III-II Semester                   |              |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |                 |   |   |   |   |   |   |   |   |   |  |  |
| Switch Gear and Protection        |              |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |                 |   |   |   |   | ✓ |   | ✓ |   |   |  |  |
| Power Semiconduct or Drives       |              |   |   |   |   |   | ✓ |               |   |   |   |   |   | ✓ |   |   |   | ✓ |   |   | ✓ |   |   |   |   |    |                 | ✓ |   |   |   | ✓ |   |   |   | ✓ |  |  |
| IV-I Semester                     |              |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |                 |   |   |   |   |   |   |   |   |   |  |  |
| Computer Methods in Power Systems |              | ✓ |   |   |   | ✓ |   |               |   | ✓ |   |   |   |   |   |   |   | ✓ |   |   |   |   |   |   |   |    |                 |   |   |   |   | ✓ |   |   |   |   |  |  |

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

| Course/<br>Teaching<br>method            | Experiential |   |   |   |   |   |   |   | Participative |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | Problem Solving |   |   |   |   |   |   |   |   |   |  |  |  |
|--|--------------|---|---|---|---|---|---|---|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|---|---|---|---|---|---|---|---|--|--|--|
|  | 1            | 2 | 3 | 4 | 5 | 6 | 7 | 2 | 8             | 9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3               | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |  |  |  |
| II-I Semester                            |              |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |   |   |   |   |   |   |   |   |  |  |  |
| Signal and System                        |              |   |   | ✓ |   | ✓ |   |   |               |   |   |   |   |   |   |   |   |   |   |   | ✓ |   | ✓ |   |   |                 |   |   | ✓ |   |   |   |   |   |   |  |  |  |
| Switching Theory and logic Design        |              |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   | ✓ | ✓ |   |   |                 |   |   | ✓ |   |   |   |   |   |   |  |  |  |
| Cyber Law                                |              |   |   |   |   |   |   |   |               |   |   | ✓ |   |   |   |   |   |   |   | ✓ |   |   |   | ✓ |   |                 |   |   |   |   |   |   |   |   |   |  |  |  |
| II-II Semester                           |              |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |   |   |   |   |   |   |   |   |  |  |  |
| Electronics Circuit analysis             |              |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   | ✓ |   |   |   |   |                 |   |   | ✓ |   |   |   |   |   | ✓ |  |  |  |
| III-I Semester                           |              |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |   |   |   |   |   |   |   |   |  |  |  |
| Principles of Communication              |              |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   | ✓ |   | ✓ |   |   |                 |   |   | ✓ |   |   |   |   |   |   |  |  |  |
| MATLAB programming                       |              |   |   |   | ✓ |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   | ✓ |   |   | ✓ |   |                 |   |   | ✓ |   |   |   |   |   |   |  |  |  |
| III-II Semester                          |              |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |   |   |   |   |   |   |   |   |  |  |  |
| Digital Signal Processing                |              |   |   |   |   | ✓ |   |   |               |   |   |   |   |   |   |   |   |   |   |   | ✓ |   |   |   |   | ✓               |   |   | ✓ |   |   |   |   |   |   |  |  |  |
| Electromagnetic s and transmission lines |              |   |   |   |   |   |   |   |               | ✓ |   |   | ✓ |   |   |   |   |   | ✓ |   |   |   | ✓ |   |   |                 |   | ✓ |   |   |   |   |   |   |   |  |  |  |
|  |              |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |   |   |   |   |   |   |   |   |  |  |  |
| IV-I Semester                            |              |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |   |   |   |   |   |   |   |   |  |  |  |
| Embedded Systm Design                    |              |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   | ✓ |   | ✓ |   |   |                 |   |   | ✓ |   |   |   |   |   |   |  |  |  |
| Microwave Engineering                    |              |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   | ✓ | ✓ |   |   |   |                 |   |   |   |   |   |   |   |   |   |  |  |  |

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## DEPARTMENT OF MECHANICAL ENGINEERING

| Course/<br>Teaching<br>method | Experiential |   |   |   |   |   |   | Participative |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | Problem Solving |   |   |   |   |   |   |   |   |   |
|-------------------------------|--------------|---|---|---|---|---|---|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|---|---|---|---|---|---|---|---|
|                               | 1            | 2 | 3 | 4 | 5 | 6 | 7 | 2             | 8 | 9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2               | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
|                               |              |   |   |   |   |   |   | 7             |   |   | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 4 | 5 | 6 | 8 | 3 | 5               | 1 | 2 | 3 | 9 | 0 | 1 | 2 | 4 | 6 |
| <b>II-I Semester</b>          |              |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |   |   |   |   |   |   |   |   |
| Thermodynamics                |              |   | ✓ |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   | ✓ |   |   |   |   |                 |   |   |   | ✓ |   |   |   | ✓ |   |
| <b>II-II Semester</b>         |              |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |   |   |   |   |   |   |   |   |
| Production Technology         | ✓            |   |   |   | ✓ |   |   |               |   |   |   |   |   | ✓ |   |   |   |   |   |   |   | ✓ |   |   |   |   | ✓               |   |   | ✓ | ✓ |   |   |   |   |   |
| FMHM                          |              | ✓ |   |   |   |   |   | ✓             |   |   |   |   |   |   |   |   |   |   |   |   |   | ✓ | ✓ |   |   |   |                 |   |   |   |   | ✓ |   |   |   |   |
| <b>III-I Semester</b>         |              |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |   |   |   |   |   |   |   |   |
| DMM-1                         |              |   |   |   | ✓ |   |   |               | ✓ |   |   | ✓ |   |   |   |   |   | ✓ |   |   |   |   |   |   |   |   |                 |   |   |   |   |   |   |   |   |   |
| DOM                           |              |   | ✓ |   |   |   | ✓ |               |   |   |   |   |   |   |   |   |   | ✓ |   |   |   | ✓ |   |   |   |   |                 |   |   |   |   |   |   |   |   |   |
| <b>III-II Semester</b>        |              |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |   |   |   |   |   |   |   |   |
| FEM                           |              |   |   |   |   |   |   |               |   |   |   |   | ✓ |   |   |   |   |   |   |   |   | ✓ |   |   |   |   |                 | ✓ |   |   |   |   |   |   |   |   |
| Heat Transfer                 | ✓            |   |   |   |   |   |   |               |   |   |   |   |   |   |   | ✓ |   |   |   |   |   |   |   |   | ✓ |   |                 |   | ✓ |   |   |   |   |   |   |   |
| <b>IV-I Semester</b>          |              |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |   |   |   |   |   |   |   |   |
| Robotics                      |              |   |   |   |   |   |   |               |   |   |   |   |   |   | ✓ |   |   |   |   |   |   | ✓ |   |   |   |   |                 | ✓ |   |   |   |   |   |   |   |   |
| CAD/CAM                       |              |   |   |   | ✓ |   |   |               |   |   |   |   | ✓ |   |   |   |   |   |   |   |   | ✓ |   |   |   |   |                 |   |   |   |   |   |   |   |   |   |
| Power Plant Engineering       |              |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   | ✓ |   |   |   | ✓ |   |   |   |   | ✓               |   |   |   |   |   |   |   |   |   |

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## DEPARTMENT OF INFORMATION TECHNOLOGY

| Course/<br>Teaching<br>method | Experiential |   |   |   |   |   |   | Participative |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Problem Solving |    |    |    |    |    |    |    |    |    |    |    |  |  |
|-------------------------------|--------------|---|---|---|---|---|---|---------------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------------|----|----|----|----|----|----|----|----|----|----|----|--|--|
|                               | 1            | 2 | 3 | 4 | 5 | 6 | 7 | 2             | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24              | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |  |
| II-I Semester                 |              |   |   |   |   |   |   |               |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |    |  |  |
| OOPS                          |              |   |   |   |   |   |   |               |   | ✓ |    |    |    |    |    |    |    |    |    |    |    | ✓  |    |    |                 |    |    |    |    | ✓  |    |    |    |    | ✓  |    |  |  |
| II-II Semester                |              |   |   |   |   |   |   |               |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Software Engineering          |              |   | ✓ |   |   |   |   |               |   |   |    |    |    |    |    | ✓  |    |    | ✓  |    |    | ✓  |    |    |                 |    |    |    | ✓  |    |    |    |    | ✓  |    |    |  |  |
| JAVA                          |              |   |   |   |   |   |   |               |   | ✓ | ✓  |    |    | ✓  |    |    |    |    |    |    |    | ✓  |    |    |                 |    |    |    |    |    |    |    | ✓  |    |    |    |  |  |
| DAA                           |              |   |   |   |   |   |   |               | ✓ |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |    |  |  |
| III-I Semester                |              |   |   |   |   |   |   |               |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Computer Networks             | ✓            |   |   |   |   |   |   |               |   | ✓ |    |    |    | ✓  |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    | ✓  |    |    | ✓  |    |  |  |
| Cloud computing               |              | ✓ |   |   |   |   |   | ✓             |   |   |    |    | ✓  |    |    |    |    |    |    |    |    | ✓  |    |    | ✓               |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Operating System              |              |   | ✓ |   |   |   |   |               |   | ✓ |    |    |    |    |    |    |    |    |    |    |    |    | ✓  |    |                 |    |    |    |    |    |    |    |    |    |    | ✓  |  |  |
| III-II Semester               |              |   |   |   |   |   |   |               |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Web Technologies              |              |   |   |   |   |   | ✓ |               |   |   |    |    |    |    |    | ✓  |    |    |    |    |    | ✓  |    |    |                 |    |    |    |    |    |    |    |    |    | ✓  |    |  |  |
| STM                           |              |   |   |   |   |   |   |               |   |   |    | ✓  |    |    |    |    | ✓  |    |    |    |    |    |    |    |                 |    |    |    |    |    | ✓  |    |    |    | ✓  |    |  |  |
| IV-I Semester                 |              |   |   |   |   |   |   |               |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Information Security          | ✓            |   | ✓ |   |   |   |   |               |   |   |    |    |    |    |    |    |    |    |    |    |    | ✓  |    |    |                 |    |    |    |    |    |    |    | ✓  |    |    | ✓  |  |  |
| MAD                           |              |   |   |   |   |   |   |               |   |   | ✓  |    |    |    |    | ✓  |    |    |    |    |    |    |    |    |                 |    |    |    |    |    | ✓  |    |    |    | ✓  |    |  |  |

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## DEPARTMENT OF HUMANITIES AND SCIENCES

| Course/<br>Teaching<br>method | Experiential |   |   |   |   |   |   |    | Participative |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Problem Solving |    |    |    |    |    |    |    |    |    |  |  |
|-------------------------------|--------------|---|---|---|---|---|---|----|---------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------------|----|----|----|----|----|----|----|----|----|--|--|
|                               | 1            | 2 | 3 | 4 | 5 | 6 | 7 | 27 | 8             | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 24 | 25 | 26 | 28 | 33 | 35              | 21 | 22 | 23 | 29 | 30 | 31 | 32 | 34 | 36 |  |  |
| I-I Semester                  |              |   |   |   |   |   |   |    |               |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |  |  |
| English                       | ✓            |   |   |   |   |   |   |    | ✓             |   | ✓  |    | ✓  | ✓  |    |    |    | ✓  |    | ✓  |    |    |    |    |    |    |                 |    |    |    |    |    | ✓  |    |    | ✓  |  |  |
| Applied<br>Physics            |              |   |   | ✓ |   |   | ✓ | ✓  | ✓             |   |    | ✓  |    |    |    | ✓  |    |    |    |    |    | ✓  |    |    |    | ✓  |                 |    |    | ✓  |    | ✓  |    | ✓  |    |    |  |  |
| Chemistry                     |              |   |   | ✓ |   |   | ✓ |    |               |   |    |    | ✓  | ✓  |    |    |    |    | ✓  |    |    |    |    |    |    |    | ✓               |    |    | ✓  |    |    |    |    | ✓  |    |  |  |
| I-II Semester                 |              |   |   |   |   |   |   |    |               |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |  |  |
| English                       |              | ✓ |   |   |   |   | ✓ |    | ✓             |   | ✓  |    | ✓  | ✓  |    |    |    | ✓  |    |    |    | ✓  |    |    |    | ✓  |                 |    |    |    |    |    |    |    | ✓  |    |  |  |
| Engineering<br>Physics        |              |   |   | ✓ |   |   |   |    | ✓             |   | ✓  | ✓  |    |    |    | ✓  |    |    | ✓  |    |    | ✓  |    |    |    |    |                 |    |    |    | ✓  |    | ✓  |    |    |    |  |  |
| III-I Semester                |              |   |   |   |   |   |   |    |               |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |  |  |
| ACS Lab                       |              | ✓ |   | ✓ |   |   |   |    | ✓             |   | ✓  | ✓  |    |    |    |    |    |    |    |    |    | ✓  |    |    |    |    | ✓               |    |    |    |    |    |    |    |    |    |  |  |
| III-II Semester               |              |   |   |   |   |   |   |    |               |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |    |  |  |
| ACS Lab                       |              |   |   |   |   |   | ✓ |    | ✓             |   | ✓  |    |    |    |    |    |    |    | ✓  |    |    |    |    |    |    | ✓  |                 |    |    |    |    |    | ✓  |    |    | ✓  |  |  |

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## DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

| Course/<br>Teaching<br>method              | Experiential |   |   |   |   |   |   | Participative |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Problem Solving |    |    |    |    |    |    |    |    |
|--|--------------|---|---|---|---|---|---|---------------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------------|----|----|----|----|----|----|----|----|
|  | 1            | 2 | 3 | 4 | 5 | 6 | 7 | 27            | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24              | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| MBA I Year                                 |              |   |   |   |   |   |   |               |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |
| Management<br>& Organization<br>Behaviour  |              | ✓ |   |   |   |   |   |               |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |
| Human<br>Resource<br>management            |              | ✓ |   |   |   |   |   |               |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |
| IEV  |              |   | ✓ |   |   |   |   |               |   |   |    |    |    |    |    |    |    |    |    |    | ✓  |    |    |    |                 |    |    |    |    |    |    |    |    |
| Entrepreneurs<br>hip                       |              |   |   |   |   |   |   |               |   |   |    |    |    |    |    | ✓  |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |
| MBA II Years                               |              |   |   |   |   |   |   |               |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |
| Services<br>marketing                      |              |   | ✓ |   |   |   |   |               |   |   | ✓  |    |    |    |    |    |    |    |    |    | ✓  | ✓  |    |    |                 |    |    |    |    |    |    |    |    |
| Production<br>and operations<br>management |              |   | ✓ |   |   |   |   |               |   |   | ✓  |    |    |    | ✓  |    |    |    |    |    |    |    |    |    |                 |    |    |    |    |    |    |    |    |
| Performance<br>management                  |              |   |   |   |   |   |   |               |   |   |    |    |    |    |    |    |    |    |    |    |    | ✓  |    |    |                 |    |    |    |    |    |    |    |    |
| Leadership<br>and change<br>management     |              |   | ✓ |   |   |   |   |               |   |   | ✓  |    |    |    | ✓  |    |    |    |    |    |    | ✓  |    |    |                 |    |    |    |    |    |    |    |    |

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