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| **I YEAR I SEMESTER** | | | | | | | | |
| **S.No** | **Category** | **Subjects** | **L** | **T** | **P** | **C** | **I** | **E** |
| 1 | BS | Mathematics-I | 3 | 0 | 0 | 3 | 30 | 70 |
| 2 | BS | Applied Chemistry | 3 | 0 | 0 | 3 | 30 | 70 |
| 3 | H&S | Communicative English | 3 | 0 | 0 | 3 | 30 | 70 |
| 4 | ESC | Computational Thinking and Programming | 3 | 0 | 0 | 3 | 30 | 70 |
| 5 | ESC | Elements of Electrical and Electronics Engineering | 3 | 0 | 0 | 3 | 30 | 70 |
| 6 | BS Lab | Applied Chemistry Lab | 0 | 0 | 3 | 1.5 | 15 | 35 |
| 7 | ESC Lab | Computational Thinking and Programming Lab | 0 | 0 | 3 | 1.5 | 15 | 35 |
| 8 | H &S Lab | English Communication Skills Lab | 0 | 0 | 3 | 1.5 | 15 | 35 |
|  | **Total Credits** | | | | | **19.5** | **195** | **455** |
|  | **Total Marks** | | | | | | **650** | |

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| **I YEAR II SEMESTER** | | | | | | | | |
| **S.No** | **Category** | **Subjects** | **L** | **T** | **P** | **C** | **I** | **E** |
| 1 | BS | Mathematics –II | 3 | 0 | 0 | 3 | 30 | 70 |
| 2 | BS | Applied Physics | 3 | 0 | 0 | 3 | 30 | 70 |
| 3 | ESC | Digital Logic Design | 3 | 0 | 0 | 3 | 30 | 70 |
| 4 | ESC | Programming for Problem Solving | 3 | 0 | 0 | 3 | 30 | 70 |
| 5 | ESC | Computer Engineering Workshop | 1 | 0 | 4 | 3 | 15 | 35 |
| 6 | BS Lab | Applied Physics Lab | 0 | 0 | 3 | 1.5 | 15 | 35 |
| 7 | ESC Lab | Advanced Python Programming Lab | 0 | 0 | 3 | 1.5 | 15 | 35 |
| 8 | ESC Lab | Programming for Problem Solving Lab | 0 | 0 | 3 | 1.5 | 15 | 35 |
| 9 | MC | Environmental Science | 2 | 0 | 0 | 0 | 0 | 0 |
|  | **Total Credits** | | | | | **19.5** | **180** | **420** |
|  | **Total Marks** | | | | | | **600** | |

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| **II YEAR I SEMESTER** | | | | | | | | |
| **S.No** | **Category** | **Subjects** | **L** | **T** | **P** | **C** | **I** | **E** |
| 1 | BS / PC | Discrete Mathematical Structures | 3 | 0 | 0 | 3 | 30 | 70 |
| 2 | PC | Data Structures | 3 | 0 | 0 | 3 | 30 | 70 |
| 3 | PC | Database Management Systems | 3 | 0 | 0 | 3 | 30 | 70 |
| 4 | ESC | Object Oriented Programming thru Java | 3 | 0 | 0 | 3 | 30 | 70 |
| 5 | BS | Probability & Statistics | 3 | 0 | 0 | 3 | 30 | 70 |
| 6 | PC Lab | Data Structures Lab | 0 | 0 | 3 | 1.5 | 15 | 35 |
| 7 | PC Lab | Database Management Systems Lab | 0 | 0 | 3 | 1.5 | 15 | 35 |
| 8 | PC Lab | Object Oriented Programming thru Java Lab | 0 | 0 | 3 | 1.5 | 15 | 35 |
| 9 | SO | Skill Oriented Course – I   1. Animations – 2D Animation 2. Web Application Development Using Full Stack –Module - I | 0 | 0 | 4 | 2 | -- | 50 |
| 10 | MC | Constitution of India | 2 | 0 | 0 | 0 |  |  |
|  | **Total Credits** | | | | | **21.5** | **195** | **505** |
|  | **Total Marks** | | | | | | **700** | |

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| **II YEAR II SEMESTER** | | | | | | | | |
| **S.No** | **Category** | **Subjects** | **L** | **T** | **P** | **C** | **I** | **E** |
| 1 | BS | Software Engineering | 3 | 0 | 0 | 3 | 30 | 70 |
| 2 | PC | Data warehousing and Mining | 3 | 0 | 0 | 3 | 30 | 70 |
| 3 | PC | Operating Systems | 3 | 0 | 0 | 3 | 30 | 70 |
| 4 | PC | Introduction to Artificial Intelligence & data Science | 3 | 0 | 0 | 3 | 30 | 70 |
| 5 | HS | Universal Human Values | 3 | 0 | 0 | 3 | 30 | 70 |
| 6 | PC Lab | OS Lab | 0 | 0 | 3 | 1.5 | 15 | 35 |
| 7 | PC Lab | AI & DS Lab | 0 | 0 | 3 | 1.5 | 15 | 35 |
| 8 | PC Lab | Data Mining using Python Lab | 0 | 0 | 3 | 1.5 | 15 | 35 |
| 9 | SO | Skill Oriented Course – II   1. Animations – 3D Animation 2. Web Application Development Using Full Stack – Module - II | 0 | 0 | 4 | 2 | -- | 50 |
| 10 | MC | Critical Reading & Creative Writing | 2 | 0 | 0 | 0 |  |  |
|  | **Total Credits** | | | | | **21.5** | **195** | **505** |
|  | **Total Marks** | | | | | | **700** | |

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| **III YEAR I SEMESTER** | | | | | | | | |
| **S.No** | **Category** | **Subjects** | **L** | **T** | **P** | **C** | **I** | **E** |
| 1 | PC | DAA | 3 | 0 | 0 | 3 | 30 | 70 |
| 2 | PC | CO | 3 | 0 | 0 | 3 | 30 | 70 |
| 3 | PC | ML | 3 | 0 | 0 | 3 | 30 | 70 |
| 4 | OE / JE | Web Technologies | 3 | 0 | 0 | 3 | 30 | 70 |
| 5 | PE | CD/ Stat with R / Data Visualization/ AI & NN | 3 | 0 | 0 | 3 | 30 | 70 |
| 6 | PC Lab | WT Lab | 0 | 0 | 3 | 1.5 | 15 | 35 |
| 7 | PC Lab | ML Lab | 0 | 0 | 3 | 1.5 | 15 | 35 |
| 8 | SAC/Soft Skill | QA & LR | 0 | 0 | 4 | 2 | -- | 50 |
| 9 | MC | Employability Skills - I | 2 | 0 | 0 | 0 |  |  |
| 10 | Summer Internship | | 0 | 0 | 0 | 1.5 |  |  |
|  | **Total Credits** | | | | | **21.5** | **195** | **505** |
|  | **Total Marks** | | | | | | **700** | |

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| **III YEAR II SEMESTER** | | | | | | | | |
| **S.No** | **Category** | **Subjects** | **L** | **T** | **P** | **C** | **I** | **E** |
| 1 | PC | CN | 3 | 0 | 0 | 3 | 30 | 70 |
| 2 | PC | BDA | 3 | 0 | 0 | 3 | 30 | 70 |
| 3 | PC | DL | 3 | 0 | 0 | 3 | 30 | 70 |
| 4 | PE | NLP/ Distributed Systems/ Pattern Recognition / IOT | 3 | 0 | 0 | 3 | 30 | 70 |
| 5 | OE / JE | NO SQL Database | 3 | 0 | 0 | 3 | 30 | 70 |
| 6 | PC Lab | DL Lab using Tensor Flow | 0 | 0 | 3 | 1.5 | 15 | 35 |
| 7 | PC Lab | BDA LAB | 0 | 0 | 3 | 1.5 | 15 | 35 |
| 8 | PC Lab | No SQL Database Lab | 0 | 0 | 3 | 1.5 | 15 | 35 |
| 9 | SAC/Soft Skill | Advanced English Communication Skills Lab | 0 | 0 | 4 | 2 | -- | 50 |
| 10 | MC | Employability Skills - II | 2 | 0 | 0 | 0 |  |  |
|  | **Total Credits** | | | | | **21.5** | **195** | **505** |
|  | **Total Marks** | | | | | | **700** | |

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| **IV YEAR I SEMESTER** | | | | | | | | |
| **S.No** | **Category** | **Subjects** | **L** | **T** | **P** | **C** | **I** | **E** |
| 1 | PE | Computer vision/ Cloud Computing/ Social Network Analysis/ Speech and video processing | 3 | 0 | 0 | 3 | 30 | 70 |
| 2 | PE | Data wrangling/ Image Processing/ Expert Systems/ Devops | 3 | 0 | 0 | 3 | 30 | 70 |
| 3 | PE | SPM/ CNS/ MAD / Mobile Computing | 3 | 0 | 0 | 3 | 30 | 70 |
| 4 | OE / JE | RPA | 3 | 0 | 0 | 3 | 30 | 70 |
| 5 | OE | Open Electives offered by other departments | 3 | 0 | 0 | 3 | 30 | 70 |
| 6 | HS Elective |  | 3 | 0 | 0 | 3 | 30 | 70 |
| 8 | Skill Advanced Course |  | 0 | 0 | 4 | 2 | -- | 50 |
| 9 | PR | Internship | 0 | 0 | 0 | 3 |  | 100 |
|  | **Total Credits** | | | | | **23** | **180** | **570** |
|  | **Total Marks** | | | | | | **750** | |

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| **IV YEAR II SEMESTER** | | | | | | | | |
| **S.No** | **Category** | **Subjects** | **L** | **T** | **P** | **C** | **I** | **E** |
| 1 | Project | Major Project Work, Seminar, Internship | - | - | - | 12 |  |  |
|  | **Total Credits** | | | | | **21.5** |  |  |
|  | **Total Marks** | | | | | |  | |