**Second Year**

**THIRD SEMESTER**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **A.THEORY** | | | | | | | |
| **Sl**  **No.** | **Subject Code** | **Theory** | **Contact**  **Hours/Week** | | | | **Credit**  **Points** |
|  |  |  | **L** | **T** | **P** | **Total** |  |
| **1** | M (CS) 301 | Numerical Methods | 2 | 1 | 0 | 3 | 2 |
| **2** | M302 | Mathematics-III | 3 | 1 | 0 | 4 | 4 |
| **3** | EC(EE)301 | Analog Electronic circuits | 3 | 0 | 0 | 3 | 3 |
| **4** | EC(EE)302 | Digital Electronic circuit | 3 | 0 | 0 | 3 | 3 |
| **5** | EE-301 | Electric Circuit theory | 3 | 1 | 0 | 4 | 4 |
| **6** | EE-302 | Field theory | 3 | 1 | 0 | 4 | 4 |
| **Total of Theory** | | | | | | **21** | **20** |
| **B. PRACTICAL** | | | | | | | |
| **7** | EC(EE)391 | Analog & Digital Electronic  circuit | 0 | 0 | 3 | 3 | 2 |
| **8** | M (CS )391 | Numerical Methods | 0 | 0 | 2 | 2 | 1 |
| **9** | EE-391 | Electric Circuit Theory | 0 | 0 | 3 | 3 | 2 |
| **10** | HU-391 | Technical report writing and  language practice | 0 | 0 | 3 | 3 | 2 |
| **Total of Practical** | | | | | | **11** | **7** |
| **C. SESSIONAL** | | | | | | | |
| **11** | GS-381 | General Studies - III | 3 | 1 | 0 | 4 | 4 |
| **Total of Sessional** | | | | | | **4** | **4** |
| **Total of Semester** | | | | | | **36** | **31** |

**FOURTH SEMESTER**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **A.THEORY** | | | | | | | |
| **Sl**  **No.** | **Subject Code** | **Theory** | **Contact Hours/Week** | | | | **Credit**  **Points** |
|  |  |  | **L** | **T** | **P** | **Total** |  |
| **1** | HU401 | Values & Ethics in Profession | 3 | 0 | 0 | 3 | 3 |
| **2** | EI(EEE)-401 | Transducers & sensors | 3 | 0 | 0 | 3 | 3 |
| **3** | CH-401 | Basic Environmental  Engineering& Elementary  Biology | 3 | 0 | 0 | 3 | 3 |
| **4** | EE-401 | Electric Machine-I | 3 | 1 | 0 | 4 | 4 |
| **5** | EE-402 | Electrical & Electronic  Measurement | 3 | 1 | 0 | 4 | 3 |
| **6** | EE – 403 | Computer Organisation &  Architecture | 3 | 1 | 0 | 4 | 4 |
| **Total of Theory** | | | | | | **21** | **20** |
| **B. PRACTICAL** | | | | | | | |
| **7** | EI(EEE)-  491 | Transducers & sensors Lab | 0 | 0 | 3 | 3 | 2 |
| **8** | EE-491 | Electric Machine Lab-I | 0 | 0 | 3 | 3 | 2 |
| **9** | EE-492 | Electrical & Electronic  measurement Lab | 0 | 0 | 3 | 3 | 2 |
| **10** | EE – 493 | Computer Organisation &  Architecture Lab | 0 | 0 | 3 | 3 | 2 |
| **Total of Practical** | | | | | | **12** | **8** |
| **C. SESSIONAL** | | | | | | | |
| **11** | GS-481 | General Studies - IV | 3 | 1 | 0 | 4 | 4 |
| **Total of Sessional** | | | | | | **4** | **4** |
| **Total of Semester** | | | | | | **37** | **32** |

**Third Year**

**Fifth Semester**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **A.THEORY** | | | | | | | |
| **Sl**  **No.** | **Subject**  **Code** | **Theory** | **Contact Hours/Week** | | | | **Credit**  **Points** |
|  |  |  | **L** | **T** | **P** | **Total** |  |
| **1** | HU501 | Economics for Engineers | 3 | 0 | 0 | 3 | 3 |
| **2** | EEE-501 | Electric machine-II | 3 | 1 | 0 | 4 | 4 |
| **3** | EEE-502 | Power system-I | 3 | 1 | 0 | 4 | 4 |
| **4** | EEE-503 | Signals & Systems | 3 | 1 | 0 | 4 | 4 |
| **5** | EEE-504 | A. Data Base Management Systems  B. Operating System  C. Microprocessor & Microcontroller | 3 | 0 | 0 | 3 | 3 |
| **Total of Theory** | | | | | | **18** | **18** |
| **B. PRACTICAL** | | | | | | | |
| **6** | EEE-591 | Electric machine-II | 0 | 0 | 3 | 3 | 2 |
| **7** | EEE-593 | Signals & Systems | 0 | 0 | 3 | 3 | 2 |
| **8** | EEE-594 | A. Data Base Management Systems  B. Operating System  C. Microprocessor & Microcontroller | 0 | 0 | 3 | 3 | 2 |
| **9** | EEE-581 | Seminar | 0 | 0 | 3 | 3 | 2 |
| **Total of Practical** | | | | | | **12** | **8** |
| **C. SESSIONAL** | | | | | | | |
| **10** | GS-581 | General Studies - V | 3 | 1 | 0 | 4 | 4 |
| **Total of Sessional** | | | | | | **4** | **4** |
| **Total of Semester** | | | | | | **34** | **30** |

**Sixth Semester**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **A.THEORY** | | | | | | | | | | |
| **Sl**  **No.** | **Subject**  **Code** | **Theory** | | | | **Contact Hours/Week** | | | | **Credit**  **Points** |
|  |  |  | | | | **L** | **T** | **P** | **Total** |  |
| **1** | HU601 | Principles of Management | | | | 2 | 0 | 0 | 2 | 2 |
| **2** | EEE-601 | Power System-II | | | | 3 | 1 | 0 | 4 | 4 |
| **3** | EEE-602 | Control System | | | | 3 | 1 | 0 | 4 | 4 |
| **4** | EEE-603 | Digital Signal Processing | | | | 3 | 1 | 0 | 4 | 4 |
| **5** | EEE-604 | a. Software Engineering  b. Object Oriented Programming  using JAVA  c. Embedded Systems. | | | | 3 | 0 | 0 | 3 | 3 |
| **6** | EEE-605 | a. Power Plant Engineering  b. Communication Engineering. | | | | 3 | 0 | 0 | 3 | 3 |
| **Total of Theory** | | | | | | | | | **20** | **20** |
| **B. PRACTICAL** | | | | | | | | | | |
| **7** | EEE-691 | Power System | | 0 | | | 0 | 3 | 3 | 2 |
| **8** | EEE-692 | Control System | | 0 | | | 0 | 3 | 3 | 2 |
| **9** | EEE-693 | Digital Signal Processing | | 0 | | | 0 | 3 | 3 | 2 |
| **10** | EEE-694 | a. Software Engineering  b. Object Oriented  Programming using JAVA  c. Embedded Systems | | 0 | | | 0 | 3 | 3 | 2 |
| **Total of Practical** | | | | | | | | | **12** | **8** |
| **C. SESSIONAL** | | | | | | | | | | |
| **11** | GS-681 | | General Studies - VI | | 3 | | 1 | 0 | 4 | 4 |
| **Total of Sessional** | | | | | | | | | **4** | **4** |
| **Total of Semester** | | | | | | | | | **36** | **32** |

**Fourth Year** **Seventh Semester**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **A.THEORY** | | | | | | | |
| **Sl**  **No.** | **Subject**  **Code** | **Theory** | **Contact Hours/Week** | | | | **Credit**  **Points** |
|  |  |  | **L** | **T** | **P** | **Total** |  |
| **1** | EEE-701 | VLSI design | 3 | 1 | 0 | 4 | 4 |
| **2** | EEE-702 | Digital Communication and  network | 3 | 1 | 0 | 4 | 4 |
| **3** | EEE-703 | Power Electronics | 3 | 1 | 0 | 4 | 4 |
| **4** | EEE-704 | a. Electric Drive  b. Utilization of Electric Power  c. Power Plant Instrumentation & Control | 3 | 0 | 0 | 3 | 3 |
| **5** | EEE-705 | a. Digital Image processing  b. Bio medical instrumentation.  c. Non-conventional Energy | 3 | 0 | 0 | 3 | 3 |
| **6** | EEE-706 | a. Design & Analysis of Algorithm  b. Mechatronics  c. AI & Soft computing | 3 | 0 | 0 | 3 | 3 |
| **Total of Theory** | | | | | | **21** | **21** |
| **B. PRACTICAL** | | | | | | | |
| **6** | EEE-791 | VLSI design | 0 | 0 | 3 | 3 | 2 |
| **7** | EEE-792 | Digital Communication & Network | 0 | 0 | 3 | 3 | 2 |
| **8** | EEE-793 | a. Design & Analysis of Algorithm  b. Mechatronics  c. AI & soft computing | 0 | 0 | 3 | 3 | 2 |
| **9** | EEE-781 | Design of Electrical / Electronic  Systems | 0 | 0 | 3 | 3 | 2 |
| **10** | EEE-782 | Seminar on industrial training. | 0 | 0 | 3 | 3 | 2 |
| **11** | EEE-795 | Project part-I | 0 | 0 | 3 | 3 | 2 |
| **Total of Practical** | | | | | | **18** | **10** |
| **C. SESSIONAL** | | | | | | | |
| **12** | GS-781 | General Studies - VII | 3 | 1 | 0 | 4 | 4 |
| **Total of Sessional** | | | | | | **4** | **4** |
| **Total of Semester** | | | | | | **43** | **43** |

**Eighth Semester**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **A.THEORY** | | | | | | | |
| **Sl**  **No.** | **Subject**  **Code** | **Theory** | **Contact Hours/Week** | | | | **Credit**  **Points** |
|  |  |  | **L** | **T** | **P** | **Total** |  |
| **1** | **HU801A** | Organizational Behavior | 2 | 0 | 0 | 2 | 2 |
| **2** | EEE-801 | a. High Voltage Engineering  b. Illumination Engineering  c. Energy management & Audit  d. FACTS & HVDC transmission | 3 | 0 | 0 | 3 | 3 |
| **3** | EEE-802 | a. Network Security  b. Operation Research  c. Cloud Computing d. Mobile Computing | 3 | 0 | 0 | 3 | 3 |
| **Total of Theory** | | | | | | **8** | **8** |
| **B. PRACTICAL** | | | | | | | |
| **4** | EEE-881 | Project –II | 0 | 0 | 12 | 12 | 6 |
| **5** | EEE-882 | Electrical Systems Laboratory-  II | 0 | 0 | 6 | 6 | 4 |
| **6** | EEE-883 | Grand Viva |  |  |  |  | 3 |
| **Total of Practical** | | | | | | **18** | **13** |
| **C. SESSIONAL** | | | | | | | |
| **7** | GS-881 | General Studies - VIII | 3 | 1 | 0 | 4 | 4 |
| **Total of Sessional** | | | | | | **4** | **4** |
| **Total of Semester** | | | | | | **30** | **25** |