**Second Year**

**THIRD SEMESTER**

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| --- |
| **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 Electroniccircuit | 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 andlanguage 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**

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| --- |
| **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 EnvironmentalEngineering& ElementaryBiology | 3  | 0  | 0  | 3 | 3 |
| **4** | EE-401 | Electric Machine-I | 3 | 1 | 0 | 4 | 4 |
| **5** | EE-402 | Electrical & ElectronicMeasurement | 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 & Electronicmeasurement 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 SystemsB. Operating SystemC. 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 SystemsB. Operating SystemC. 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 Engineeringb. Object Oriented Programmingusing JAVAc. Embedded Systems. | 3  | 0 | 0 | 3  | 3 |
| **6** | EEE-605 | a. Power Plant Engineeringb. 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 Engineeringb. Object OrientedProgramming using JAVAc. 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 andnetwork | 3  | 1 | 0 | 4 | 4 |
| **3** | EEE-703 | Power Electronics | 3  | 1 | 0 | 4 | 4 |
| **4** | EEE-704 | a. Electric Driveb. Utilization of Electric Powerc. Power Plant Instrumentation & Control | 3  | 0 | 0 | 3 | 3 |
| **5** | EEE-705 | a. Digital Image processingb. Bio medical instrumentation.c. Non-conventional Energy | 3  | 0 | 0 | 3 | 3 |
| **6** | EEE-706 | a. Design & Analysis of Algorithmb. Mechatronicsc. 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 Algorithmb. Mechatronicsc. AI & soft computing | 0  | 0 | 3 | 3 | 2 |
| **9** | EEE-781 | Design of Electrical / ElectronicSystems | 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 Engineeringb. Illumination Engineeringc. Energy management & Auditd. FACTS & HVDC transmission | 3  | 0 | 0 | 3  | 3 |
| **3** | EEE-802 | a. Network Securityb. Operation Researchc. 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** |