**FIRST YEAR**

 **FIRST SEMESTER**

|  |
| --- |
| **A. Theory**  |
| **Sl. No**  | **Subject Code**  | **Subject**  | **Contact** **Periods/Week**  | **Credits**  |
|   |  |   | L |  T  | P |  Total  |  |
| 1. 2. 3. 4. 5. 6.  | SOT101 SOT102 SOT103 SOT104 SOT105 SOT106  | Engineering Mathematics Engineering Physics Economics and Human Development Environmental Science Communication Skill in English Engineering Chemistry  | 3 3 2 2 2 3  | 1 1 0 0 0 1  | -- -- -- -- -- --  | 4 4 2 2 2 4  | 4 4 2 2 2 4  |
| **Total Theory**  | **18**  | **18**  |
| **B. Practical**  |
| 1. 2. 3. 4.  | SOT107 SOT108 SOT109 SOT110  | Engineering Physics Engineering Chemistry Engineering Drawing NCC/NSS  | -- -- -- --  | -- -- -- --  | 3 3 3 2  | 3 3 3 2  | 2 2 2 1  |
| **Total Practical**  | **11**  | **7**  |
| **Total of Semester:**  | **29**  | **25**  |

 **SECOND SEMESTER**

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| --- |
| **A. Theory**  |
| **Sl. No**  | **Subject Code**  | **Subject**  | **Contact** **Periods/Week**  | **Credits**  |
|   |   | L | T | P | Total  |  |
| 1. 2. 3. 4. 5. 6.  | SOT201 SOT202 SOT203 SOT204 SOT205 SOT206  | Advanced Engineering Mathematics-I Engineering Mechanics Computer Systems and Programming Electrical Technology Values and Ethics Basic Electronics  | 3 3 3 3 2 3  | 1 0 0 1 0 0  | -- -- -- -- -- --  | 4 3 3 4 2 3  | 4 3 3 4 2 3  |
| **Total Theory**  | **19**  | **19**  |
| **B. Practical**  | L | T | P |  |
| 1 2 3  | SOT207 SOT208 SOT209  | Computer Programming Lab Electrical & Electronics Lab Workshop Technology  | -- -- --  | -- -- --  | 3 3 3  | 3 3 3  | 2 2 2  |
| **Total Practical**  | **9**  | **6**  |
| **Total of Semester:**  | **28**  | **25**  |

**SECOND YEAR**

**THIRD SEMESTER**

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| --- |
| **A. Theory**  |
| **Sl. No.**  | **Code**  | **Theory**  | **Contact** **Periods/Week**  | **Credits**  |
|  |  |  | L | T  | P | Total |  |
| 1 2 3 4 5  | ETC301 ETC302 ETC303 ETC304 ETC305  | Signals and Systems Solid State DeviceAnalog Electronic Circuits Digital Electronic Circuits Circuit Theory and Network Analysis | 3 3 3 33  | 0 11 11 | -- -- -- -- -- | 3 44 44 | 3 44 4 4 |
| **Total Theory**  | **19**  | **19** |
| **B. Practical**  |
| 1. 2.2.  | ETC306 ETC307ETC308  | Analog Circuits Lab Digital Electronics LabNetworks Analysis Lab | - --  | -- ----  | 3 33  | 3 33  | 2 22  |
| **Total Practical**  | **9**  | **6**  |
| **Total of Semester:**  |  **28** | **25**  |

 **FOURTH SEMESTER**

|  |
| --- |
| **A. Theory**  |
| **Sl. No.**  | **Code**  | **Theory**  | **Contact** **Periods/Week**  | **Credits**  |
|  |  |  | L | T | P | Total |  |
| 1 2 3 4 5 6 | ETC401 ETC402 ETC403 ETC404 ETC405 ETC406 | Analog Communication TheoryElectromagnetic TheoryComputer Architecture and Org.Microprocessor & MicrocontrollerMicroelectronicsRandom Processes, Probability Theory & Statistics | 3 3 3 3 3 3 | 0 10 10 1 | -- -- -- -- -- -- | 343 43 4 | 3 43434 |
| **Total Theory**  | **21**  | **21**  |
| **B. Practical**  |
| 1 2  | ETC407 ETC408  | Analog communication labMicroprocessor Lab | - -  | -- --  | 3 3  | 3 3  | 2 2  |
| **Total Practical**  | **6** | **4** |
| **Total of Semester:**  |  **27** | **25**  |

**THIRD YEAR**

**FIFTH SEMESTER**

|  |
| --- |
| **A. Theory**  |
| **Sl. No.**  | **Code**  | **Theory**  | **Contact** **Periods/Week**  | **Credits**  |
|  |  |  |  **L** | **T**  | P | Total |  |
| 1 2 3 4 5  | ETC501 ETC502 ETC503 ETC504 ETC505  | Digital Communication Advanced Digital System DesignMicrowave EngineeringVLSI DesignControl Systems | 3 3 3 3 3  | 0 1 0 10 | -- -- -- -- -- | 3 4 3 43 | 3 4 3 43 |
| **Total Theory**  | **17** | **17**  |
| **B. Practical**  |
| 1 2 34  | ETC506 ETC507 ETC508 ETC 509 | Advanced Digital Design LabDigital Communication LabMicrowave Engg. LabControl System Lab | - - - - | -- -- -- -- | 3 3 33  | 3 3 3 3 | 2 2 2 2 |
| **Total Practical**  | **12**  | **8**  |
| **Total of Semester:** | **29** | **25** |

**SIXTH SEMESTER**

|  |
| --- |
| **A. Theory**  |
| **Sl. No.**  | **Code**  | **Theory**  | **Contact** **Periods/Week**  | **Credits**  |
|  |  |  |  L |  T | P | Total  |  |
| 1 2 3 4 5  | ETC601 ETC602 ETC603 ETC604 ETC605  | Computer Communication & NetworkingDigital Signal ProcessingPower Electronics Measurement & InstrumentationAntenna and Radar Engineering | 33333 | 1 1 11 0 | -- -- -- -- -- | 4 4 44 3 | 4 4 443  |
| **Total Theory**  | **19**  | **19**  |
| **B. Practical**  |
| 1 2 3 | ETC606 ETC607 ETC608  | DSP Lab Computer Networking Lab VLSI Design Lab | - - -  | -- -- -- | 3 3 3 | 3 3 3  | 2 2 2 |
| **Total Practical**  | **9** | **6** |
| **Total of Semester:**  |  **28** | **25**  |

**FOURTH YEAR**

**SEVENTH SEMESTER**

|  |
| --- |
| **A. Theory**  |
| **Sl. No.**  | **Code**  | **Theory**  | **Contact** **Periods/Week**  | **Credits**  |
|  |  |  | L  | T | P | Total |  |
| 1 2 34  | ETC701 ETC702 ETC703 ETC704 | Linear Integrated CircuitSatellite CommunicationElective I Elective II  | 3 3 3 3  | 1 1 1 1  | -- -- -- --  | 4 4 4 4  | 4 4 4 4 |
| **Total Theory**  | **16**  | **16** |
| **B. Practical**  |
| 1 2 3 | ETC706 ETC707ETC708  | Integrated Circuit LabMeasurement LabProject I | - - - | -- -- -- | 3 3  3 | 3 33  | 2 25  |
| **Total Practical**  | **9**  | **9** |
| **Total of Semester:**  |  **25** | **25**  |

**LIST OF ELECTIVES**

**ELECTIVE I (ETC704):**

ETC704A Telecommunication Network Management

ETC704B Cryptography and Network Security

ETC704C Higher Power Semiconductor Devices

ETC704D EDA for VLSI Design

ETC704E Discrete Mathematics and Graph Theory

**ELECTIVE II (ETC705):**

ETC705A Operating System

ETC705B Biomedical Instrumentation

ETC705C Multimedia communication and Networks

ETC705D Telecom Switching

ETC705E Advanced Computer Communication Networks

**EIGHTH SEMESTER**

|  |
| --- |
| **A. Theory**  |
| **Sl. No.**  | **Code**  | **Theory**  | **Contact** **Periods/Week**  | **Credits**  |
|  |  |  | L  | T | P | Total  |  |
| 1 2 34 | HU801 ETC802 ETC803ETC 804 | Industrial ManagementOptical Fiber & Comn.Elective III Elective IV  | 3 3 33 | 0 101  | -- -- ---- | 3 4 34 | 3 4 34 |
| **Total Theory**  | **14**  | **14**  |
| **B. Practical**  |
| 1 23 | ETC805 ETC806ETC807 | Seminar Grand VIVAProject II | - -- | - -- | ----6 | -- --6 | 2 45 |
| **Total Practical**  | **6** | **11** |
| **Total of Semester:**  | **20** | **25** |

**ELECTIVE SUBJECTS**

**ELECTIVE III (ETC802):**

ETC802A Cellular and Mobile Communication

ETC802B Software Engineering

ETC802C Embedded Systems

ETC802D Artificial Neural Network

**ELECTIVE IV (ETC803):**

ETC803A Nanotechnology & Nano-Electronics

ETC803B Distributed Computing

ETC803C Principles of Electromagnetic and Electrostatic Compatibility

ETC803D Electronic Sensors and MEMS