



**B.E ELECTRICAL AND ELECTRONICS ENGINEERING
 (FOUR YEAR FULL TIME)
 CURRICULUM 2009
 SEMESTER I**

| Code No. | Course Title | L | T | P | C |
|------------------|--------------------------|---|---|---|---|
| THEORY | | | | | |
| XEE101 | Technical English | 3 | 1 | 0 | 4 |
| XEE102 | Mathematics- I | 3 | 1 | 0 | 4 |
| XEE103 | Applied Physics | 3 | 1 | 0 | 4 |
| XEE104 | Computer Programming | 4 | 0 | 0 | 4 |
| XEE105 | Engineering Graphics | 1 | 0 | 3 | 4 |
| XEE106 | Engineering Mechanics | 3 | 0 | 0 | 3 |
| PRACTICAL | | | | | |
| XEE107 | Applied Physics Lab | 0 | 0 | 3 | 2 |
| XEE108 | Computer Programming Lab | 0 | 0 | 3 | 2 |
| XEE109 | Basic Workshop Practice | 0 | 0 | 3 | 2 |

Total Hours: 32

Total Credits: 29

SEMESTER II

| Code No. | Course Title | L | T | P | C |
|------------------|----------------------------------|---|---|---|---|
| THEORY | | | | | |
| XEE201 | Mathematics – II | 3 | 1 | 0 | 4 |
| XEE202 | Data Structures and Algorithms | 3 | 1 | 0 | 4 |
| XEE203 | Applied Chemistry | 3 | 1 | 0 | 4 |
| XEE204 | Electric Circuit Analysis | 3 | 1 | 0 | 4 |
| XEE205 | Electronic Devices | 3 | 0 | 0 | 3 |
| XEE206 | Mechanics of Fluids and Solids | 3 | 1 | 0 | 4 |
| PRACTICAL | | | | | |
| XEE207 | Applied Chemistry Lab | 0 | 0 | 3 | 2 |
| XEE208 | Communication Skills Enhancement | 2 | 0 | 2 | 2 |
| XEE209 | Electric Circuits Lab | 0 | 0 | 3 | 2 |

Total Hours: 33

Total Credits: 27



SEMESTER III

| Code No. | Course Title | L | T | P | C |
|------------------|--|---|---|---|---|
| THEORY | | | | | |
| XEE301 | Mathematics – III | 3 | 1 | 0 | 4 |
| XEE302 | Electromagnetic Field Theory | 3 | 1 | 0 | 4 |
| XEE303 | Electrical Machines - I | 3 | 1 | 0 | 4 |
| XEE304 | Electronic Circuits | 3 | 1 | 0 | 4 |
| XEE305 | Professional Ethics and Human values (EEE) | 3 | 0 | 0 | 3 |
| XEE306 | Applied Thermodynamics | 3 | 1 | 0 | 4 |
| PRACTICAL | | | | | |
| XEE307 | Electrical Machines Lab - I | 0 | 0 | 3 | 2 |
| XEE308 | Electronic Devices and Circuits Lab | 0 | 0 | 3 | 2 |

Total Hours: 29

Total Credits: 27

SEMESTER IV

| Code No. | Course Title | L | T | P | C |
|------------------|---------------------------------------|---|---|---|---|
| THEORY | | | | | |
| XEE401 | Numerical Methods | 3 | 1 | 0 | 4 |
| XEE402 | Environmental Science and Engineering | 3 | 0 | 0 | 3 |
| XEE403 | Electrical Machines – II | 3 | 1 | 0 | 4 |
| XEE404 | Transmission & Distribution | 3 | 1 | 0 | 4 |
| XEE405 | Control Systems | 3 | 1 | 0 | 4 |
| XEE406 | Object oriented Programming | 3 | 1 | 0 | 4 |
| PRACTICAL | | | | | |
| XEE407 | Electrical Machines Lab – II | 0 | 0 | 3 | 2 |
| XEE408 | Object oriented Programming Lab | 0 | 0 | 3 | 2 |

Total Hours: 29

Total Credits: 27

SEMESTER V

| Code No. | Course Title | L | T | P | C |
|------------------|------------------------------|---|---|---|---|
| THEORY | | | | | |
| XEE501 | Power Electronics | 3 | 1 | 0 | 4 |
| XEE502 | Communication Engineering | 3 | 0 | 0 | 4 |
| XEE503 | Protection & Switchgear | 3 | 1 | 0 | 4 |
| XEE504 | Measurements and Instruments | 3 | 0 | 0 | 4 |
| XEE505 | Digital Logic Circuits | 3 | 1 | 0 | 4 |
| XEE506 | Linear Integrated Circuits | 3 | 0 | 0 | 4 |
| PRACTICAL | | | | | |
| XEE507 | Power Electronics Lab | 0 | 0 | 3 | 2 |
| XEE508 | Control Systems Lab | 0 | 0 | 3 | 2 |

Total Hours: 27

Total Credits: 28

SEMESTER VI

| Code No. | Course Title | L | T | P | C |
|------------------|--|---|---|---|---|
| THEORY | | | | | |
| XEE601 | Solid State Drives | 3 | 0 | 0 | 4 |
| XEE602 | Power System Analysis | 3 | 1 | 0 | 4 |
| XEE603 | Total Quality Management | 3 | 0 | 0 | 3 |
| XEE604 | Digital Signal Processing | 3 | 1 | 0 | 4 |
| XEE605 | Microprocessors & Micro controllers | 3 | 1 | 0 | 4 |
| XEEE** | Elective –I | 3 | 0 | 0 | 3 |
| PRACTICAL | | | | | |
| XEE607 | Linear Integrated Circuits and Microprocessors & Micro controllers Lab | 0 | 0 | 3 | 2 |
| XEE608 | Measurements & Instruments Lab | 0 | 0 | 3 | 2 |

Total Hours: 27

Total Credits: 26

SEMESTER VII

| Code No. | Course title | L | T | P | C |
|------------------|------------------------------------|---|---|---|---|
| THEORY | | | | | |
| XEE701 | Social Engineering | 3 | 0 | 0 | 3 |
| XEE702 | High Voltage Engineering | 3 | 0 | 0 | 3 |
| XEE703 | Design of Electrical Apparatus | 3 | 1 | 0 | 4 |
| XEE704 | Power System Operation and Control | 3 | 1 | 0 | 4 |
| XEE705 | Elective – II | 3 | 0 | 0 | 3 |
| XEEE** | Elective – III | 3 | 0 | 0 | 3 |
| PRACTICAL | | | | | |
| XEE707 | Power System Simulation Lab | 0 | 0 | 3 | 2 |
| XEE708 | Mini Project (Hardware only) | 0 | 0 | 4 | 4 |

Total Hours: 27

Total Credits: 26

SEMESTER VIII

| Code No. | Course Title | L | T | P | C |
|------------------|--|---|---|----|----|
| THEORY | | | | | |
| XEE801 | Entrepreneurial Development Management | 3 | 0 | 0 | 3 |
| XEEE** | Elective – IV | 3 | 0 | 0 | 3 |
| XEEE** | Elective – V | 3 | 0 | 0 | 3 |
| PRACTICAL | | | | | |
| XEE804 | Project Work | 0 | 0 | 20 | 12 |

Total Hours: 32

Total Credits: 21

Over all Credits: 209

LIST OF ELECTIVES

| **ELECTIVE CODE | Course Title | L | T | P | C |
|------------------------|--|----------|----------|----------|----------|
| XEEE51 | Fibre Optics and Laser Instruments | 3 | 0 | 0 | 3 |
| XEEE52 | Visual Languages and Applications | 3 | 0 | 0 | 3 |
| XEEE53 | Advanced Control System | 3 | 0 | 0 | 3 |
| XEEE54 | Control and Maintenance of Electrical Machines | 3 | 0 | 0 | 3 |
| XEEE55 | Special Electrical Machines | 3 | 0 | 0 | 3 |
| XEEE56 | Bio-Medical Instrumentation | 3 | 0 | 0 | 3 |
| XEEE57 | Artificial Intelligence and Expert Systems | 3 | 0 | 0 | 3 |
| XEEE58 | Internetworking Technology | 3 | 0 | 0 | 3 |
| XEEE59 | Power System Dynamics | 3 | 0 | 0 | 3 |
| XEEE60 | Computer Architecture | 3 | 0 | 0 | 3 |
| XEEE61 | Power Plant Engineering | 3 | 0 | 0 | 3 |
| XEEE62 | Power System Transients | 3 | 0 | 0 | 3 |
| XEEE63 | Data Communication and Networks | 3 | 0 | 0 | 3 |
| XEEE64 | Embedded System Design | 3 | 0 | 0 | 3 |
| XEEE65 | Mobile Communication | 3 | 0 | 0 | 3 |
| XEEE66 | Operations Research | 3 | 0 | 0 | 3 |
| XEEE67 | VLSI Design | 3 | 0 | 0 | 3 |
| XEEE68 | Neural Network and Fuzzy Logic Control | 3 | 0 | 0 | 3 |
| XEEE69 | Electric Energy Generation, Utilization and Conservation | 3 | 0 | 0 | 3 |
| XEEE70 | Non – Conventional Energy Sources | 3 | 0 | 0 | 3 |

NOTE:

L → LECTURE HOURS
T → TUTORIAL HOURS
P → PRACTICAL HOURS
C → CREDITS HOURS