***Suggestive Study path for Electrical, Electronics and Power Engineering***

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | First Semester | Second Semester | Third Semester | Fourth Semester | Fifth Semester | Sixth Semester | Seventh Semester | Eighth Semester | Total |
| Humanity and Social Sciences including Environmental Studies  (5 to 10% , 14) | Communication skills 4+1=5 |  | Environmental studies 4+0=4  (Total = 4) | Select any one subject from the list of HSS displayed on the institute Website  3+0=3  (Total = 3) | Select any one subject from the list of HSS displayed on the institute Website  2+0=2  (Total = 2) |  |  |  | 14 |
| Basic Sciences  (15 to 20%, 23) | M1 4+0=4  Phy 3+1=4  Bio 3+0=3  (Total=11) | M2 4+0=4  Chem 3+1=4  (Total=8) | Engineering Mathematics- III 4+0=4  (Total = 4) | 00 | ***00*** |  |  |  | 23 |
| Engineering Sciences  (15 to 20%, 30) | Workshop1: 0+1=1  Basics of BCE/BME/BEE  4+1=5  (Total=6) | Graphics  3+1=4  Engg Mechanics  3+1=4  Basics of XXXX  4+1=5  Workshop2  0+1=1  (Total=14) | Computer Programming and Data Structure 2+1=3  (Total = 3) | Select any one subject from Electrical Engineering Materials /Basic Thermodynamics/Numerical computational technique/Solid Mechanics and Fluid Mechanics/ 3+0=3  Simulation Lab 0+1=01  (Total = 4) | Select any one subject from Electrical Engineering Materials /Basic Thermodynamics/Numerical computational technique/  Solid Mechanics and Fluid Mechanics/ 3+0=3  (Total = 3) |  |  |  | 30 |
| Professional Core  (30 to 40%, 50) |  |  | Electromagnetic field 3+0=3  Network Analysis 3+1= 4  Analog Electronics 3+1= 4  (Total = 11) | Power System-I 3+0=3  Electrical machines –I 3+1=4  Electrical Measurement and Instrumentation 3+1=4  Linear integrated circuit 3+1=4  (Total = 15) | Electrical Machines-II  4+1=5  Digital Electronics  3+1=4  Power System II 3+1=4  Control Systems I 3+1=4  (Total = 17) | Switchgear and Protection 3+1=4  Advanced control Systems  4+0=4  Microprocessor and microcontroller 3+1=4  Power Electronics 3+1=4  (Total = 16) | Electrical Drives 4+1=5  Advanced Power System  3+0=3  (Total=8) |  | 67 |
| Professional Electives  (10 to 15%, 20) |  |  | ***00*** | 00 | ***00*** |  | Professional Elective- I 3+0=3  (Total=3) | Professional Elective- II,III,IV,V 3+3+3+3=12  (Total=12) | 15 |
| Open Elective  (5 to 10%, 12) |  |  | ***00*** | ***00*** | 00 | Open Elective-I 3+0=3  (Total =3) | Open Elective-II,III  3+3=6  (Total =6) | Open Elective-IV  3+0=3  (Total =3) | 12 |
| Project Work ,Seminar and/or Internship in Industry or elsewhere  (10 to 15%, 20) |  |  | ***00*** | 00 | 00 | Mini project Seminar 3+0=3  (Total = 3) | Project Phase-I 0+2=2  Innovation Lab 0+1=1  In-plant training  2+0=2  (Total = 5) | Project Phase II 0+6=6  Electrical specification lab 0+1=1  (Total = 7) | 15 |
| Mandatory Courses  (No Credits) |  |  |  | Select any one subject from the list of mandatory courses offered by department | Select any one subject from the list of mandatory courses offered by department |  |  |  | 00 |
| Total Credits | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 176 |