***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=4Phy 3+1=4Bio 3+0=3(Total=11) | M2 4+0=4Chem 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/BEE4+1=5(Total=6) | Graphics3+1=4Engg Mechanics 3+1=4Basics of XXXX4+1=5Workshop20+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=3Simulation 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=3Network Analysis 3+1= 4Analog Electronics 3+1= 4(Total = 11) | Power System-I 3+0=3Electrical machines –I 3+1=4Electrical Measurement and Instrumentation 3+1=4Linear integrated circuit 3+1=4(Total = 15) | Electrical Machines-II4+1=5Digital Electronics3+1=4Power System II 3+1=4Control Systems I 3+1=4(Total = 17) | Switchgear and Protection 3+1=4Advanced control Systems4+0=4Microprocessor and microcontroller 3+1=4Power Electronics 3+1=4(Total = 16) | Electrical Drives 4+1=5Advanced Power System3+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=2Innovation Lab 0+1=1In-plant training2+0=2(Total = 5) | Project Phase II 0+6=6Electrical 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 |