

B.E. in Electrical Engineering:

Semester:1

Code	Subject	Theory(Hrs)	Tutorial(Hrs)	Practical(Hrs)	Credits
3110014	Mathematics-I	3	0	2	5
3110011	Physics	3	0	2	4
3110005	Basic Electrical Engineering	3	0	2	4
3110013	Engineering Graphics & Design	3	0	2	4
3110006	Basic Mechanical Engineering	3	0	2	4

Semester:2

Code	Subject	Theory(Hrs)	Tutorial(Hrs)	Practical(Hrs)	Credits
3110002	English	2	0	2	3
3110003	Programming for Problem Solving	3	0	2	4
3110007	Environmental Science	2	2	0	0
3110012	Workshop	0	0	4	2
3110015	Mathematics-II	3	2	0	5
3110016	Basic Electronics	3	0	2	5

Semester:3

Code	Subject	Theory(Hrs)	Tutorial(Hrs)	Practical(Hrs)	Credits
3130004	Effective Technical Communication	2	0	2	3
3130007	Indian Constitution	2	0	0	0
3130008	Design Engineering - I A	0	0	2	1
3130905	Control System Theory	3	0	2	4
3130906	Electrical Circuit Analysis	3	1	2	5
3130907	Analog & Digital Electronics	4	0	2	5
3130908	Applied Mathematics for Electrical Engineering	3	2	0	5

Semester:4

Code	Subject	Theory(Hrs)	Tutorial(Hrs)	Practical(Hrs)	Credits
2140002	Design Engineering - I B	0	0	3	3
2140906	AC Machines	4	0	2	6
2140907	Applied Thermal and Hydraulic Engineering	3	0	0	3
2140908	Electrical Power Generation	4	0	2	6
2140909	Field Theory	3	2	0	5
2140910	Digital Electronics	3	0	2	5
2141005	Signals and Systems	3	0	2	5

Semester:5

Code	Subject	Theory(Hrs)	Tutorial(Hrs)	Practical(Hrs)	Credits
2150001	Design Engineering - II A	0	0	3	30
2150002	Cyber Security (Inst. Elec.)	0	1	2	3
2150003	Disaster Management (Inst. Elec.)	3	0	0	3
2150903	Power Electronics – I	3	0	2	5
2150904	Elements of Electrical Design	2	0	2	4
2150907	Microprocessor and Microcontroller Interfacing	4	0	2	6
2150908	Electrical Power System – I	3	0	0	3
2150909	Control System Engineering	4	0	2	6

Semester:6

Code	Subject	Theory(Hrs)	Tutorial(Hrs)	Practical(Hrs)	Credits
2160001	Design Engineering - II B	0	0	3	3
2160902	Power Electronics â€” II3	3	0	2	5
2160904	High Voltage Engineering	3	0	2	5
2160907	Utilization of Electrical Energy and Traction	3	0	0	3
2160908	Electrical Power System â€” II	3	0	2	5
2160909	Advance Microcontrollers (DeptElec-I)	3	0	2	5
2160910	Electrical Drives (DeptElec-I)	3	0	2	5
2160911	Computer Aided Analysis and Design for Electrical Engg. (DeptElec-I)	3	0	2	5
2160912	Design of DC Machines and Transformer	3	0	2	5

Semester:7

Code	Subject	Theory(Hrs)	Tutorial(Hrs)	Practical(Hrs)	Credits
2170001	Project	0	0	4	4
2170901	Inter Connected Power System	3	0	2	5
2170906	Advanced Power Electronics (DeptElec-II)	3	0	2	5
2170908	Switch Gear and Protection	3	0	2	6
2170909	Design of AC Machines	3	0	2	5
2170913	Industrial Instrumentation (DeptElec-II)	3	0	2	5
2170914	Digital Signal Processing (DeptElec-II)	3	0	2	5

Semester:8

Code	Subject	Theory(Hrs)	Tutorial(Hrs)	Practical(Hrs)	Credits
2180901	Testing and Commissioning of Electrical Equipmentâ€™s	3	0	2	5
2180903	Power System Planning and Design	3	0	2	5
2180905	Project	0	0	10	10
2180909	Power System Operation and Control	4	0	0	4
2180910	Energy Conservation, and Audit (Dept Elec - III)	3	0	2	5
2180911	Power Quality and Management (Dept Elec - III)	3	0	2	5
2180912	Condition Monitoring (Dept Elec - III)	3	0	2	5
2180913	Advanced Control Systems (Dept Elec - III)	3	0	2	5