

**SEMESTER I**

<b>Subject Name</b>	<b>Subject Type</b>	<b>Subject Code</b>	<b>Subject Credit</b>
Mathematics-I	Basic Science	2BS1101	4
Communication Skills	Humanity and Social Science	2HS1101	3
Physics	Basic Science	2BS1103	3
Engineering Graphics	Engineering Science	2ES1101	4
Workshop Practice	Engineering Science	2ES1102	2
Basic Electrical Engineering	Engineering Science	2ES1103	4

**SEMESTER II**

<b>Subject Name</b>	<b>Subject Type</b>	<b>Subject Code</b>	<b>Subject Credit</b>
Mathematics-II	Basic Science	2BS1102	4
Elements of Civil Engineering	Engineering Science	2ES1106	4
Elements of Mechanical Engineering	Engineering Science	2ES1105	4
Programming for Problem Solving	Engineering Science	2ES1104	4
Basic Electronics	Engineering Science	2ES1112	4

**SEMESTER  
III**

<b>Subject Name</b>	<b>Subject Type</b>	<b>Subject Code</b>	<b>Subject Credit</b>
Mathematics for Electrical Engineering	Basic Science	2BS3101	4
Circuit Analysis	Professional Core	2EE3101	4
Electrical Power System-I	Professional Core	2EE3102	4
Analog Electronics	Professional Core	2EE3103	4
Thermal and Hydraulic Prime Movers	Engineering Science	2ES3101	3

**SEMESTER  
IV**

<b>Subject Name</b>	<b>Subject Type</b>	<b>Subject Code</b>	<b>Subject Credit</b>
Applied Mathematics for Electrical Engineering	Basic Science	2BS4104	1
Electrical Measurement and Instrumentation	Professional Core	2EE4101	4
Signals and Systems	Professional Core	2EE4102	3
Digital Electronics	Professional Core	2EE4103	4
Power Electronics	Professional Core	2EE4104	4
Electrical Machines-I	Professional Core	2EE4105	4

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V**

<b>Subject Name</b>	<b>Subject Type</b>	<b>Subject Code</b>	<b>Subject Credit</b>
Control Systems	Professional Core	2EE5101	4
Electromagnetic Fields	Professional Core	2EE5102	4
Electrical Power System - II	Professional Core	2EE5103	4
Electrical Machines - II	Professional Core	2EE5104	4
Mini Project	Professional Core	2EE5105	2
Elements of Electrical Design	Professional Elective	2EE51PE1	4
Industrial Automation	Professional Elective	2EE51PE2	4
Advanced Power Electronics	Professional Elective	2EE51PE3	4
Aptitude Skill Building-I	Humanity and Social Science	2HS5101	1

**SEMESTER  
VI**

Subject Name	Subject Type	Subject Code	Subject Credit
Microprocessor & Microcontroller	Professional Core	2EE6101	4
Power System Operation & Control	Professional Core	2EE6102	4
Electrical Drives	Professional Core	2EE6103	4
Seminar	Professional Core	2EE6104	1
Artificial Intelligence	Professional Elective	2EE61PE1	3
Electrical Energy Conservation and Auditing	Professional Elective	2EE61PE2	3
Electrical Power Utilization and Traction	Professional Elective	2EE61PE3	3
Power System Practice & Design	Professional Elective	2EE61PE4	4
Dynamics & Modelling of Electrical Machines	Professional Elective	2EE61PE5	4
Special Electrical Machines	Professional Elective	2EE61PE6	4
Digital Control System	Open Elective	2EE61OE1	3
Cyber Security	Open Elective	2EE61OE2	3
Digital Signal Processing	Open Elective	2EE61OE3	3
Aptitude Skill Building-II	Humanity and Social Science	2HS6101	1

SEMESTER

VII

Subject Name	Subject Type	Subject Code	Subject Credit
Commissioning, Testing and Maintenance of Electrical Equipment	Professional Core	2EE7101	4
Power System Protection and Switchgear	Professional Core	2EE7102	4
Electrical Machine Design	Professional Elective	2EE71PE1	4
High Voltage Engineering	Professional Elective	2EE71PE2	4
Control System Design	Professional Elective	2EE71PE3	4
Wind and Solar Energy System	Professional Elective	2EE71PE4	3
Electrical and Hybrid Vehicles	Professional Elective	2EE71PE5	3
EHV AC and HVDC Transmission	Professional Elective	2EE71PE6	3
Embedded System	Open Elective	2EE71OE1	3
Internet of Things	Open Elective	2EE71OE2	3
Optimization Techniques	Open Elective	2EE71OE3	3
Simulation Lab	Professional Core	2EE7103	1
Industrial Training	Professional Core	2EE7104	1

**SEMESTER  
VIII**

<b>Subject Name</b>	<b>Subject Type</b>	<b>Subject Code</b>	<b>Subject Credit</b>
MAJOR PROJECT/INTERNSHIP	Professional Core	2EE8101	15

