

Electrical Engineering

Semester III

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Advance Engineering Mathematics	3	2	0	5	70	30	30	20	150	9
	Circuit & Networks	3	0	2	5	70	30	30	20	150	9
	Analog Electronics	4	0	2	6	70	30	30	20	150	9
	Electrical Measurement and Measuring Instruments	3	0	2	5	70	30	30	20	150	9
	DC Machine and Transformer	4	0	2	6	70	30	30	20	150	9
	Applied Thermal and Hydraulic Engineering	3	0	0	3	70	30	0	0	100	9
	Total	20	2	8	30						

Semester IV

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Numerical Method for Electrical Engineering	3	2	0	5	70	30	30	20	150	9
	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	9
	AC Machines	4	0	2	6	70	30	30	20	150	9
	Signals and Systems	3	0	2	5	70	30	30	20	150	9
	Electromagnetic Field Theory	3	2	0	5	70	30	30	20	150	9
	Conventional and Non Conventional Energy Sources and Power Generation	4	0	2	6	70	30	30	20	150	9
	Total	20	4	6	30						

Semester V

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Institute elective/ Interdisciplinary	3	0	2	5	70	30	30	20	150	9
	Control System Engineering	3	0	2	5	70	30	30	20	150	9
	Design of DC Machines and Transformer	4	0	2	6	70	30	30	20	150	9
	Electrical Power System ñ I	3	0	0	3	70	30	0	0	100	9
	Power Electronics ñ I	4	0	2	6	70	30	30	20	150	9
	Digital logic Design	3	0	2	5	70	30	30	20	150	9
	Total	20	0	10	30						

Semester VI

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Departmental Elective - I	3	0	2	5	70	30	30	20	150	9
	Microprocessor and Microcontroller Architechture &	4	0	2	6	70	30	30	20	150	9
	Electrical Power system interfacingñ II	3	0	2	5	70	30	30	20	150	9
	High Voltage Engineering	3	0	2	5	70	30	30	20	150	9
	Power Electronics ñ II	3	0	2	5	70	30	30	20	150	9
	Utilization of Electrical Enenrgy and Traction	4	0	0	4	70	30	0	0	100	9
	Total	20	0	10	30						

Semester VII

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Departmental Elective - II	3	0	2	5	70	30	30	20	150	9
	Design of AC Machines	4	0	2	6	70	30	30	20	150	9
	Switch gear and Protection	4	0	2	6	70	30	30	20	150	9
	Inter Connected Power System	3	0	2	5	70	30	30	20	150	9
	Project Preliminaries	0	0	8	8	0	0	100	50	150	9
	Total	14	0	16	30						

Semester VIII

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Departmental Elective - III	4	0	2	6	70	30	30	20	150	9
	Testing and Commissioning of Electrical Equipments	4	0	2	6	70	30	30	20	150	9
	Power System Planning and Design	4	0	2	6	70	30	30	20	150	9
	Project	0	0	12	12	0	0	100	50	150	9
	Total	12	0	18	30						

Departmental Elective - I

Digital Signal Processing
 Materials in Electrical System
 Electrical Drives Control
 Computer Aided Analysis and Design for Electrical Engg.

Departmental Elective - II

Advance Microcontrollers
 Power System Operation and Control
 Advanced Power Electronics
 Industrial Instrumentation

Departmental Elective - III

Energy Conservation, and Audit
 Power Quality and Management
 EHV AC-DC Transmission
 Advanced Control Systems

**Note: ALA Component, OEP Component and Design Module I, II and III (to be offered in 2nd Year , 3rd year and 4th year respectively)
shall be displayed in the final teaching scheme**