

ELECTRICAL AND ELECTRONICS ENGINEERING

Group	Subject code	Name of subject	Total credits
PC	GR15A3016	Power Transmission System	4
PC	GR15A2055	Microcontrollers	4
PC	GR15A3018	Power Electronics	4
Open elective 1			3
Professional Elective1			4
PE	GR15A3015	Operational Amplifiers	
PE	GR15A3017	Electrical Measurements and Instrumentation	
PE	GR15A2049	Signals & Systems	
PC	GR15A3019	Sensors, Measurements and Instrumentation Lab	2
PC	GR15A3020	Power Electronics Lab	2
PC	GR15A2059	Microcontrollers Lab	2
TOTAL			25

Group	Subject code	Name of subject	Total credits
PC	GR15A3021	Computer Methods in Power Systems	4
PC	GR15A3022	Switch Gear and Protection	4
PC	GR15A3102	Management Science	4
Open Elective II			3
Professional Elective II			4
PE	GR15A3023	Utilization of Electrical Energy	
PE	GR15A3024	Non Conventional Sources of Energy	
PE	GR15A3106	Neural and Fuzzy Systems	
PC	GR15A3025	Power Systems Lab	2
PC	GR15A3100	Advanced English Communication Skills Lab	2
PC	GR15A3101	Industry Oriented Mini Project	2
TOTAL			25

Open Elective 1		Course Title	Department Offering
OE - I	GR15A3151	Water Resources Engineering	CE
	GR15A3152	Solar & Wind Energy Systems	EEE
	GR15A3153	Applied Thermodynamics	ME
	GR15A3154	Principles of E- Commerce	CSE
	GR15A3155	Datamining and Applications	IT
	GR15A3156	Computer Architecture and Organization	ECE
Open Elective 2		Course Title	Department Offering
OE - II	GR15A3161	Transportation Engineering	CE
	GR15A3162	Sensors & Transducers	EEE
	GR15A3163	Automobile Engineering	ME
	GR15A3164	Human Computer Interaction	CSE
	GR15A3165	Essentials of Big Data Analytics	IT
	GR15A3166	Principles of Operating Systems	ECE

IV B.Tech I Sem

Group	Sub-Code	Name Of Subject	Total credits
PC	GR15A4022	Power Semiconductor Drives	4
PC	GR15A4023	Power System Operation And Control	4
PC	GR15A4024	HVDC Transmission	4
Open Elective 3			3
Professional Elective3			4
PE	GR15A4147	High Voltage Engineering	
PE	GR15A4026	Electrical Distribution Systems	
PE	GR15A4148	Principles of signal processing	
PC	GR15A4027	DSP Based Electrical Lab	2
PC	GR15A4028	Power System Simulation Lab	2
PC	GR15A4029	Power Electronics And Drives Lab	2
Total			25

IV B.Tech II Sem

Group	Sub-Code	Name Of Subject	Total credits
PC	GR15A4030	Programmable Logic Controllers	3
Professional Elective 4			4
PE	GR15A4032	Flexible AC Transmission Systems	
PE	GR15A4035	EHV AC Transmission	
PE	GR15A4031	Power System Automation	
Professional Elective 5			4
PE	GR15A4036	Modern Power Electronics	
PE	GR15A4149	DSP Based Electromechanical Systems	
PE	GR15A4037	Advanced Control Systems	
PC	GR15A4038	Programmable Logic Controllers Lab	2
SPW	GR15A4143	Seminar	1
SPW	GR15A4142	Comprehensive Viva	1
SPW	GR15A4144	Major Project	10
Total			25

Open Elective 3	Course Title	Department Offering
GR15A4161	Green Building Technology	CE
GR15A4162	Soft Computing Techniques	EEE
GR15A4163	Operations Research	ME
GR15A4164	Mobile Computing and Applications	CSE
GR15A4165	Business Intelligence	IT
GR15A4166	Principles of Satellite Communications	ECE