

**BOS (EED) 24-05-2017****B.Tech.(Electrical Engineering)****Semester I**

Sr. No.	Course Code	Course	L	T	P	Credits	
1	HSIR11	English for Communication	2	0	0	2	
2	MAIR11	Mathematics - I	3	1	0	4	
3	PHIR11	Physics - I	2	1	0	3	
4	CSIR11	Basics of Programming	2	0	2	3	
5	EEIR11	Familiarization to Electrical Engineering	2	0	0	2	EIR
6	CHIR11	Environmental Studies	2	0	0	2	
7	CEIR12/ MEIR11	Engineering Graphics / Engineering Practice	1/ 1	0 0	3/ 3	2/ 2	
8	SWIR11	NCC/NSS/Sports				1	
9	PHLR11	Physics-I Lab	0	0	2	1	LAB PHIR11
11	HSLR11	Communication Lab	0	0	2	1	LAB HSIR11
		Total	14	2	9	21	

**Semester II**

Sr. No.	Course Code	Course	L	T	P	Credit	
1	HSIR12	***	3	0	0	3	
2	MAIR12	Mathematics - II	3	1	0	4	
3	PHIR12	Physics - II	2	1	0	3	
4	CHIR12	Chemistry	2	1	0	3	
5	EEPC10	Electrical Circuits & Networks	3	1	0	4	PC1
6	EEPC12	Measurement & Instrumentation	3	0	2	4	PC2
7	EEPC14	Signals & Systems	3	0	2	4	PC3
8	CEIR 12 / MEIR11	Engineering Graphics / Engineering Practice	1/ 1	0 0	3/ 3	2/ 2	
11	PHLR12	Physics-II Lab	0	0	2	1	Lab PHIR12
12	CHLR12	Chemistry Lab	0	0	2	1	Lab CHIR12
		Total	20	4	11	29	

**BOS (EED) 24-05-2017****B.Tech.( Electrical Engineering )****Semester III**

Sr. No.	Course Code	Course	L	T	P	Credit	
1	EEPC21	Control Systems-I	3	1	0	4	PC4
2	EEPC23	Electrical Machines-I	3	1	2	5	PC5
3	EEPC25	Electronic Devices & Circuits	4	1	2	6	PC6
4	EEPC27	Power Engineering-I	3	1	0	4	PC7
5	EEPC29	Power Electronics -I	3	1	0	4	PC8
6	EEPC211	Network Synthesis and Filters	3	1	0	4	PC9
			19	6	4	27	

**Semester IV**

Sr. No.	Course Code	Course	L	T	P	Credit	
1	MAIR22	Mathematics III	3	1	0	4	EPR
2	EEPC24	Power Engineering-II	3	1	2	5	PC10
3	EEPC26	Electrical Machines-II	3	1	2	5	PC11
4	EEPC28	Power Electronics-II	4	0	2	5	PC12
5	EEPE22	*				4	PE1
6	EEPE24	*				3	PE2
7	EEPC30	Control Systems Lab-I	0	0	3	1	Lab PC4
			19	4	9	27	

\* Elective(s) [ PE/OE] offered from the list



**BOS (EED) 24-05-2017****B.Tech.( Electrical Engineering )****Semester VII**

Sr. No.	Course Code	Course	L	T	P	Credit	
1	HSIR**	Management	3	0	0	3	EPR
2	EEPC41	Reliability Engineering	3	1	0	4	PC17
3	EEPC43	Advanced Power Electronics and Drives	3	1	0	4	PC18
4	EEPC45	Industrial Control	3	1	0	4	PC19
5	EEPE41	*				3	PE5
6	EEPE43	*				3	PE6
7	EELR41	Control Systems Lab-II	0	0	3	1	Lab PC15
8	EELR43	Advanced Power Electronics and Drives Lab	0	0	2	1	Lab PC18
			18/17	3	5/7	23	

\* Elective(s) [ PE/OE] offered from the list

**Semester VIII**

Sr. No.	Course Code	Course	L	T	P	Credit	
1	HSIR42	Professional Ethics & IPR	2	0	0	2	EPR
2	EEPC40	Power System Operation and Economics	3	0	0	3	PC20
3	EEPE40	*				3	PE7
4	EEPE42	*				4	PE8
5	EEPE44	*				3	PE9
6	EEIR42	Comprehensive Viva/Project			6	3	EPR
7	EEPC48	Seminar			2	2	
			14	0/1	10/8	19	

\* Elective(s) [ PE/OE] offered from the list

Semester	I	II	III	IV	V	VI	VII	VIII	Total
Credits	21	29	26	27	25	10	23	19	180

**BOS (EED) 24-05-2017**

**B.Tech.( Electrical Engineering )**

**List of Program Electives (PE) / Open Electives (OE)**

PE / OE	Course Code	Course	L	T	P	Credits
PE1	EEPE22A	Renewable Energy	3	1	0	4
	EEPE22B	Mechatronics	3	1	0	4
	EEPE22C	Modelling and Simulation	3	1	0	4
PE2	EEPE24A	Distribution system analysis and Automation	3	0	0	3
	EEPE24B	Power Plant Instrumentation	3	0	0	3
	EEPE24C	Power System Compensation	3	0	0	3
PE3	EEPE31A	Power System Restructuring	3	0	0	3
	EEPE31B	High Voltage Engineering	2	0	2	3
	EEPE31C	Electrical Energy Utilization	3	0	0	3
PE4	EEPE33A	Power Quality	3	0	0	3
	EEPE33B	Distributed Generation	3	0	0	3
	EEPE33C	Multivariable Control	3	0	0	3
PE5	EEPE41A	EHV AC and DC Transmission	3	0	0	3
	EEPE41B	Real Time Systems	2	0	2	3
	EEPE41C	Robotics	3	0	0	3
PE6	EEPE43A	Energy Management	3	0	0	3
	EEPE43B	Information Security	3	0	0	3
	EEPE43C	Micro Electro Mechanical systems	3	0	0	3
	EEPE43D	Analysis of Wind and Solar Systems	3	0	0	3
PE7	EEPE40A	Electric Vehicles	3	0	0	3
	EEPE40B	Fault Tolerance and Reliability Engineering	3	0	0	3
	EEPE40C	Intelligent Instrumentation	3	0	0	3
	EEPE40D	Soft Computing	3	0	0	3
PE8	EEPE42A	Renewable Energy Converters	3	1	0	4
	EEPE42B	Virtual Instrumentation	3	0	2	4
	EEPE42C	Optimization Theory	3	1	0	4
	EEPE42D	Advanced Control Techniques	3	1	0	4
PE9	EEPE44A	Smart Grid Systems	3	0	0	3
	EEPE44B	Signal Processing	3	0	0	3
	EEPE44C	Electrical Safety and Standards	3	0	0	3