

Course Structure for B.Tech, EEE (2019 -2023 Batch-B17 Batch)

I SEMESTER

S.No.	Course Code	Course Title	Course Category	Hours per week			Total Contact Hours	Credits
				L	T	P		
1	MA1101	Linear algebra and Calculus	BSC	4	0	0	4	4
2	PH1105	Engineering Physics	BSC	3	1	0	4	4
3	PH1605	Engineering Physics Lab	BSC	0	0	3	3	1.5
4	HS1101	English	HSMC	2	0	0	2	2
5	HS1701	English Language Lab	HSMC	0	0	2	2	1
6	CE1701	Engineering Graphics	ESC	0	0	6	6	3
7	CS1101	Programming for Problem Solving	ESC	3	0	0	3	3
8	CS1701	Programming for Problem Solving Lab	ESC	0	0	4	4	2
Total				12	1	15	28	20.5
Induction Programme (Non-Credit)								

II SEMESTER

S.No.	Course Code	Course Title	Course Category	Hours per week			Total Contact	Credits
				L	T	P		
1	EE1201	Electrical Circuit Analysis	PCC	4	1	0	5	5
2	EE1801	Electrical Circuit Analysis Lab	PCC	0	0	2	2	1
3	MA1202	Differential equations and Laplace Tr	BSC	3	1	0	4	4
4		Chemistry	BSC	3	0	0	3	3
5		Chemistry Lab	BSC	0	0	3	3	1.5
6	ME1203	Workshop/Manufacturing Practices	ESC	2	0	2	4	3
7		Constitution of India	MC	0	0	0	0	0
8		Environmental Science	MC	0	0	0	0	0
Total				12	2	7	21	17.5

III SEMESTER

S.No.	Course Code	Course Title	Course Category	Hours per week			Total Contact	Credits
				L	T	P		
1	EE2101	Electrical Machines-I	PCC	3	1	0	4	4
2	EE2102	Analog Electronic Circuits	PCC	4	1	0	5	5
3	EE2103	Electromagnetic Fields	PCC	3	1	0	4	4
4	EE2701	Analog Electronic Circuits Lab	PCC	0	0	2	2	1
5	ME2104	Engineering Mechanics	ESC	3	1	0	4	4
6	MA2105	Vector Calculus and Complex analysis	BSC	3	1	0	4	4
7	HS2101	Essence of Indian Traditional Knowledge	MC	0	0	0	0	0
Total				16	5	2	23	22

IV SEMESTER

S.No.	Course Code	Course Title	Course Category	Hours per week			Total Contact	Credits
				L	T	P		
1	EE2201	Electrical Machines-II	PCC	3	1	0	4	4
2	EE2202	Power Electronics	PCC	3	1	0	4	4
3	EE2203	Digital Electronics	PCC	3	0	0	3	3
4	EE2204	Power Systems-I	PCC	3	0	0	3	3
5	EE2205	Signals and Systems	PCC	2	1	0	3	3
6	EE2801	Electrical Machines-I Lab	PCC	0	0	3	3	1.5
7	EE2802	Power Electronics Lab	PCC	0	0	3	3	1.5
8	EE2803	Digital Electronics Lab	PCC	0	0	2	2	1
9	HS2201	Development of Societies and Communication Skills-I	HSS	3	0	0	3	3
Total				17	3	8	28	24

V SEMESTER

S.No.	Course Code	Course Title	Course Categor	Hours per week			Total Contact	Credits
				L	T	P		
1	EE3101	Power Systems-II	PCC	3	1	0	4	4
2	EE3102	Control Systems	PCC	3	1	0	4	4
3	EE3103	Electrical Measurements and Instrumentation	PCC	3	0	0	3	3
4	EE3104	Micro Processors	PCC	3	0	0	3	3
5	EE3701	Electrical Machines-II Lab	PCC	0	0	3	3	1.5
6	EE3702	Electrical Measurements and Instrumentation Lab	PCC	0	0	2	2	1
7	EE3703	Micro Processors Lab	PCC	0	0	2	2	1
8		Open Elective-I (Oops)	OEC	3	0	0	3	3
9		Seminar-I (Technical)	Seminar	0	0	0	0	0
Total				15	2	7	24	20.5

VI SEMESTER

S.No.	Course Code	Course Title	Course Categor	Hours per week			Total Contact	Credits
				L	T	P		
1	EE3201	Power Systems Protection	PCC	3	0	0	3	3
2	EE3202	Power Systems Operation and Control	PCC	3	0	0	3	3
3	EE3801	Power Systems Lab	PCC	0	0	2	2	1
4	EE3802	Control Systems Lab	PCC	0	0	2	2	1
5	EE3803	Electrical Simulation Lab	PCC	0	0	3	3	1.5
6		Program Elective-I	PEC	3	0	0	3	3
7		Program Elective-II	PEC	3	0	0	3	3
8		Open Elective-II	OEC	3	0	0	3	3
9	HS3202	Human Values and Soft skills	HSMC	2	0	2	4	3
10		Mini Project	PROJ	0	0	2	2	1
11		Comprehensive Viva	PCC	0	0	0	0	0
12		Summer Internship	PCC	0	0	0	0	0
Total				17	0	11	28	22.5

VII SEMESTER

S.No.	Course Code	Course Title	Course Categor	Hours per week			Total Contact	Credits
				L	T	P		
1	EE4101	Utilization of Electrical Energy	PCC	3	0	0	3	3
2	EE4701	Energy Systems Lab	PCC	0	0	2	2	1
3		Program Elective-III	PEC	3	0	0	3	3
4		Program Elective-IV	PEC	3	0	0	3	3
5		Open Elective-III	OEC	3	0	0	3	3
6		Slot for HSS (fnagement Studies)	HSMC	3	0	0	3	3
7		Project-I	PROJ	0	0	6	6	3
Total				15	0	8	23	19

VIII SEMESTER

S.No.	Course Code	Course Title	Course Categor	Hours per week			Total Contact	Credits
				L	T	P		
1		Program Elective-V	PEC	3	0	0	3	3
2		Open Elective-IV	OEC	3	0	0	3	3
3		Project-II	PROJ	0	0	16	16	8
4		Comprehensive Viva	PCC	0	0	0	0	0
Total				6	0	16	22	14