

Course Structure for B.Tech, EEE (2018-2022 Batch-B16 Batch)

I SEMESTER

S.No.	Course Code	Course Title	Course Category	Hours per week			Total Contact Hours	Credits
				L	T	P		
1	MA1001	Mathematics-I (Linear Algebra and Calculus)	BSC	4	0	0	4	4
2	PH1001	Engineering Physics	BSC	3	1	0	4	4
3	PH1601	Engineering Physics Lab	BSC	0	0	3	3	1.5
4	HS1001	English	HSMC	2	0	0	2	2
5	HS1601	English Language Lab	HSMC	0	0	2	2	1
6	CE1001	Engineering Graphics	ESC	1	0	4	5	3
7	EE1001	Basic Electrical Engineering	ESC	3	1	0	4	4
8	EE1601	Basic Electrical Engineering Lab	ESC	0	0	2	2	1
Total				13	2	11	26	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	MA1201	Mathematics-II (Laplace Transforms and Ordinary Differential Equations)	BSC	3	1	0	4	4
4	CY1001	Chemistry	BSC	3	1	0	3	4
5	CY1601	Chemistry Lab	BSC	0	0	3	3	1.5
6	ME1601	Workshop/Manufacturing Practices	ESC	1	0	4	5	3
7	MC1001	Constitution of India	MC	0	0	0	0	0
8	MC1002	Environmental Science	MC	0	0	0	0	0
Total				11	3	9	22	18.5

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	0	0	3	3
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	CS2103	Programming for Problem Solving	ESC	3	0	0	3	3
6	CS2703	Programming for Problem Solving Lab	ESC	0	0	4	4	2
7	MA2105	Vector Calculus and Complex analysis	BSC	3	1	0	4	4
8	ME2104	Engineering Mechanics	ESC	3	1	0	4	4
Total				19	4	6	29	26

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	0	0	3	3
2	EE2202	Power Electronics	PCC	3	0	0	3	3
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		Development of Societies and Communication Skills)	HSS	2	0	0	2	2
Total				16	1	8	25	21

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	0	0	3	3
2	EE3102	Control Systems	PCC	3	0	0	3	3
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		Essence of Indian Traditional Knowledge	MC	2	0	0	2	0
10		Seminar-I (Technical)	Seminar	0	0	0	0	0
Total				17	0	7	24	18.5

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	3	3	1.5
4	EE3802	Control Systems Lab	PCC	0	0	2	2	1
5	EE3803	Electrical Simulation Lab	PCC	0	0	2	2	1
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		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