Teaching and Examination Scheme for B.Tech. (Four Year Courses)

Branch Electrical Engineering Branch Code EE

Year	II	Semester	III					
			Hrs./Week			Maximum Marks		Total
Code	Subject	Lecture	Tutorial	Practical	Exam. (Hrs)	IA	Exam	
3EE1	Power Electronics-I	2	1		3	20	80	100
3EE2	Computer Programming-I	3			3	20	80	100
3EE3	Circuit Analysis-I	3	1		3	20	80	100
3EE4	Electrical Machines-I	3	1		3	20	80	100
3EE5	Electrical Measurements	3	1		3	20	80	100
3EE6.1	Mathematics	3	1		3	20	80	100
3EE6.2		1					l	
3EE6.3								
3EE6.4							l	
3EE7	Power Electronics Lab-I			2	2	45	30	75
3EE8	Computer Programming Lab-I			2	2	45	30	75
3EE9	Electrical Circuit Lab			2	2	45	30	75
3EE10	Electrical Machines Lab-I			2	2	45	30	75
3EE11	Electrical Measurement Lab			2	2	30	20	50
3EEDC	Discipline/Extra-Curricular Activities							50
	Total	17	5	10		330	620	1000
	Total Teaching hours	32					•	

Year	II	Semester	IV					
		Hrs./Week			Duration of	Maximum Marks		Total
Code	Subject	Lecture	Tutorial	Practical	Exam. (Hrs)	IA	Exam	i I
4EE1	Power Electronics-II	3	1		3	20	80	100
4EE2	Digital Electronics	3			3	20	80	100
4EE3	Electrical Machines-II	3	1		3	20	80	100
4EE4	Computer Programming -II	3			3	20	80	100
4EE5	Circuit Analysis-II	3	1		3	20	80	100
4EE6.1	Advanced Mathematics	3	1		3	20	80	100
4EE6.2		İ			Ì		l	
4EE6.3								
4EE6.4								
4EE7	Power Electronics Lab-II			2	2	45	30	75
4EE8	Digital Electronics Lab			2	2	45	30	75
4EE9	Electrical Machines Lab-II			2	2	45	30	75
4EE10	Computer Programming Lab-II			2	2	45	30	75
4EE11	Humanities & Social Sciences			2	2	30	20	50
4EEDC	Discipline/Extra-Curricular Activities							50
	Total	18	4	10		330	620	1000
	Total Teaching hours	32						

Year	III	Semester	V					
			Hrs./Week			Maximum Marks		Total
Code	Subject	Lecture	Tutorial	Practical	Exam. (Hrs)	IA	Exam	Ī
5EE1	Power Electronics-III	3	1		3	20	80	100
5EE2	Microprocessors & Computer Architecture	3			3	20	80	100
5EE3	Control Systems	3	1		3	20	80	100
5EE4	Generation of Electrical Power	3	1		3	20	80	100
5EE5	Transmission & Distribution of Electrical Power	3	1		3	20	80	100
5EE6.1	Advanced Distribution System	3			3	20	80	100
5EE6.2	Principle of Communication Systems	1						
5EE6.3	Introduction to VLSI	1	l				l	
5EE6.4							l	
5EE7	Power Electronics Lab-III			2	2	45	30	75
5EE8	Microprocessor Lab			2	2	45	30	75
5EE9	MATLAB Programming Lab			2	2	45	30	75
5EE10	Power System Design			2	2	45	30	75
5EE11	Entrepreneurship Development			2	2	30	20	50
5EEDC	Discipline/Extra-Curricular Activities							50
	Total	18	4	10		330	620	1000
	Total Teaching hours	32						

Year	III	Semester	VI					
		Hrs./Week			Duration of Maximum Marks		m Marks	Total
Code	Subject	Lecture	Tutorial	Practical	Exam. (Hrs)	IA	Exam	i l
6EE1	Modern Control Theory	3	1		3	20	80	100
6EE2	High Voltage Engineering	3			3	20	80	100
6EE3	Protection of Power System	3	1		3	20	80	100
6EE4	Advanced Power Electronics	3	1		3	20	80	100
6EE5	Data Structures in C	3			3	20	80	100
6EE6.1	Advanced Microprocessors	3	1		3	20	80	100
6EE6.2	Power System Instrumentation	1					l	
6EE6.3	Digital Communication and Information Theory							
6EE6.4		i l					l	
6EE7	Control System Lab			2	2	45	30	75
6EE8	Power System Lab			2	2	60	40	100
6EE9	Data Structures Lab			2	2	45	30	75
6EE10	Advanced Power Electronics Lab			2	2	60	40	100
6EE11								
6EEDC	Discipline/Extra-Curricular Activities							50
	Total	18	4	8		330	620	1000
	Total Teaching hours	30						

Year	IV	Semester	VII					
		Hrs./Week			Duration of	Maximum Marks		Total
Code	Subject	Lecture	Tutorial	Practical	Exam. (Hrs)	IA	Exam	1
7EE1	Data Base Management System	3			3	20	80	100
7EE2	Power System Analysis	3	1		3	20	80	100
7EE3	Artificial Intelligence Techniques	3			3	20	80	100
7EE4	Utilization of Electrical Power	3	1		3	20	80	100
7EE5	Power System Engineering	3	1		3	20	80	100
7EE6.1	Electromagnetic Field Theory	3			3	20	80	100
7EE6.2	Computer Aided Design of Electrical Machines							
7EE6.3	Economic Operation of Power Systems							
7EE6.4								
7EE7	DBMS Lab			2	2	45	30	75
7EE8	Power System Modelling & Simulation Lab			2	2	45	30	75
7EE9	Industrial Economics & Management			2	2	30	20	50
7EE10	Project Stage I			2	2	50		50
7EE11	Practical Training & Industrial Visit			2	2	60	40	100
7EEDC	Discipline/Extra-Curricular Activities							50
	Total	18	3	10		330	620	1000
	Total Teaching hours	31					•	•

Year	IV	Semester	VIII					
			Hrs./Week			Maximum Marks		Total
Code	Subject	Lecture	Tutorial	Practical	Exam. (Hrs)	IA	Exam	1
8EE1	EHV AC/DC Transmission	3	1		3	20	80	100
8EE2	Electric Drives and Their Control	3	1		3	20	80	100
8EE3	Switchgear & Protection	3			3	20	80	100
BEE4.1	Non Conventional Energy Sources	3			3	20	80	100
BEE4.2	FACTS Devices & Their Applications	1					l	
3EE4.3	Power System Transients	1						
8EE4.4		i					l	
8EE5	Computer Based Power System Lab			3	2	60	40	100
BEE6	Electrical Drives and Control Lab			3	2	60	40	100
8EE7	High Voltage Engineering Lab			2	2	30	20	50
BEE8	Seminar			2	2	60	40	100
BEE9	Project Stage II			4	2	120	80	200
BEEDC	Discipline/Extra-Curricular Activities							50
	Total	12	2	14		410	540	1000
	Total Teaching hours	28		•	•			•
	On ad Tatal	100	- 00	- 00		0000	00.40	1 0000
	Grand Total	100	23	62	1	2060	3640	6000