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

Branch: Electrical Engineering Branch Code: EE

Year	II	Semester	III					
		Hrs./Week			Duration of Exam. (Hrs)	Maximum Marks		**Total**
Code	Subject	Lecture	Tutorial	Practical		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								
3EE6.3								
3EE6.4								
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 Exam. (Hrs)	Maximum Marks		**Total**
Code	Subject	Lecture	Tutorial	Practical		IA	Exam	
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								
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			Duration of Exam. (Hrs)	Maximum Marks		**Total**
Code	Subject	Lecture	Tutorial	Practical		IA	Exam	
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							
5EE6.3	Introduction to VLSI							
5EE6.4								
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 Exam. (Hrs)	Maximum Marks		**Total**
Code	Subject	Lecture	Tutorial	Practical		IA	Exam	
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							
6EE6.3	Digital Communication and Information Theory							
6EE6.4								
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 Exam. (Hrs)	Maximum Marks		**Total**
Code	Subject	Lecture	Tutorial	Practical		IA	Exam	
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			Duration of Exam. (Hrs)	Maximum Marks		**Total**
Code	Subject	Lecture	Tutorial	Practical		IA	Exam	
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**
8EE4.1	Non Conventional Energy Sources	3			3	20	80	**100**
8EE4.2	FACTS Devices & Their Applications							
8EE4.3	Power System Transients							
8EE4.4								
8EE5	Computer Based Power System Lab			3	2	60	40	**100**
8EE6	Electrical Drives and Control Lab			3	2	60	40	**100**
8EE7	High Voltage Engineering Lab			2	2	30	20	**50**
8EE8	Seminar			2	2	60	40	**100**
8EE9	Project Stage II			4	2	120	80	**200**
8EEDC	Discipline/Extra-Curricular Activities							**50**
	Total	12	2	14		410	540	**1000**
	Total Teaching hours	28						

Grand Total	100	23	62		2060	3640	6000