

Rajasthan Technical University Kota

Teaching and Examination Scheme for B.Tech. (Four year courses)

Branch **Electrical & Electronics Engg.**

Branch Code **EX**

Year	II	Semester	III			Duration of Exam. (Hrs) 3	Maximum Marks		Total
			Hrs./Week				IA	Exam	
Code	Subject	Lecture	Tutorial	Practical					
3EX1	Mathematics-III	3	1			20	80	100	
3EX2	Object Oriented Programming using	3	1		3	20	80	100	
3EX3	Circuit Analysis & synthesis	3	1		3	20	80	100	
3EX4	Electronics devices & Circuits	3	1		3	20	80	100	
3EX5	Electrical & Electronics measurement	3	0		3	20	80	100	
3EX6.1	Data structure and Algorithm	3	0		3	20	80	100	
3EX6.2									
3EX6.3									
3EX6.4									
3EX7	Computer Programming Lab			2	2	45	30	75	
3EX8	Circuit Analysis Lab			2	2	60	40	100	
3EX9	Electronics Devices & Circuits Lab			3	2	60	40	100	
3EX10	Electrical & Electronics measurement			2	2	45	30	75	
3EX11								0	
3EXDC	Discipline/Extra-Curricular Activities							50	
	Total	18	4	9		330	620	1000	
	Total Teaching hours	31							

Year	II	Semester	IV			Duration of Exam. (Hrs) 3	Maximum Marks		Total
			Hrs./Week				IA	Exam	
Code	Subject	Lecture	Tutorial	Practical					
4EX1	Electrical Machines-I	3	1			20	80	100	
4EX2	Digital Electronics	3	1		3	20	80	100	
4EX3	Electrical Engg. Materials	3	1		3	20	80	100	
4EX4	Applied Electronics	3	1		3	20	80	100	
4EX5	Linear Integrated circuits	3	0		3	20	80	100	
4EX6.1	Electromagnetic Field Theory	3	0		3	20	80	100	
4EX6.2									
4EX6.3									
4EX6.4									
4EX7	Electrical Machines Lab-I			3	2	60	40	100	
4EX8	Digital Electronics Lab			3	2	45	30	75	
4EX9	Applied Electronics Lab			3	2	60	40	100	
4EX10	Integrated circuit Lab			2	2	45	30	75	
4EX11									
4EXDC	Discipline/Extra-Curricular Activities							50	
	Total	18	4	11		330	620	1000	
	Total Teaching hours	33							

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Year	III	Semester	V			Duration	Maximum Marks		Total
			Hrs./Week						
Code	Subject	Lecture	Tutorial	Practical	of Exam. (Hrs) 3	IA	Exam		
5EX1	Power Electronics	3	1			20	80	100	
5EX2	Electrical machines -II	3	1		3	20	80	100	
5EX3	Control Systems	3	1		3	20	80	100	
5EX4	Analog Communication	3	0		3	20	80	100	
5EX5	Trans. and Distri. of Elect. Power	3	0		3	20	80	100	
5EX6.1	Biomedical Instrumentation	3	0		3	20	80	100	
5EX6.2	Object Oriented Programming using Java								
5EX6.3	Introduction to VLSI								
5EX6.4									
5EX7	Power Electronics Lab			2	2	45	30	75	
5EX8	Electrical Machines Lab - II			2	2	45	30	75	
5EX9	Control System Lab			2	2	45	30	75	
5EX10	Power System Design Lab			2	2	45	30	75	
5EX11	Entrepreneurship Development			2		30	20	50	
5EXDC	Discipline/Extra-Curricular Activities							50	
	Total	18	3	10		330	620	1000	
	Total Teaching hours	31							

Year	III	Semester	VI			Duration	Maximum Marks		Total
			Hrs./Week						
Code	Subject	Lecture	Tutorial	Practical	of Exam. (Hrs) 3	IA	Exam		
6EX1	Modern Control Theory	3	1			20	80	100	
6EX2	Microprocessor & Microcontroller	3	1		3	20	80	100	
6EX3	Protection of Power System	3	1		3	20	80	100	
6EX4	Advanced Power Electronics	3	1		3	20	80	100	
6EX5	Data Structures in C	3	0		3	20	80	100	
6EX6.1	Neural Networks	3	0		3	20	80	100	
6EX6.2	Advanced Microprocessors								
6EX6.3	Digital Communication & Info. Theory								
6EX6.4									
6EX7	Microprocessor Lab			2	2	45	30	75	
6EX8	Power System Lab			3	2	60	40	100	
6EX9	MATLAB Programming Lab			2	2	45	30	75	
6EX10	Advanced Power Electronics Lab			3	2	60	40	100	
6EX11								0	
6EXDC	Discipline/Extra-Curricular Activities							50	
	Total	18	4	10		330	620	1000	
	Total Teaching hours	32							

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Year	IV	Semester	VII			Duration	Maximum Marks		Total
			Hrs./Week						
Code	Subject	Lecture	Tutorial	Practical	of Exam. (Hrs) 3	IA	Exam		
7EX1	Database Management Systems	3	1			20	80	100	
7EX2	Power System Analysis	3	1		3	20	80	100	
7EX3	Artificial Intelligence Techniques	3	1		3	20	80	100	
7EX4	Utilization of Electrical Power	3	0		3	20	80	100	
7EX5	Power System Engineering	3	0		3	20	80	100	
7EX6.1	Digital Signal Processing	3	0		3	20	80	100	
7EX6.2	Computer Aided Des. of Elect. Machines								
7EX6.3	Operating System								
7EX6.4									
7EX7	DBMS Lab			3	2	60	40	100	
7EX8	Power System Modelling & Sim. Lab			3	2	60	40	100	
7EX9	Project Stage I			2		50		50	
7EX10	Practical Training & Industrial Visit			2		60	40	100	
7EX11									
7EXDC	Discipline/Extra-Curricular Activities							50	
	Total	18	3	10		350	600	1000	
	Total Teaching hours	31							

Year	IV	Semester	VIII			Duration	Maximum Marks		Total
			Hrs./Week						
Code	Subject	Lecture	Tutorial	Practical	of Exam. (Hrs) 3	IA	Exam		
8EX1	EHV AC/DC Transmission	3	1			20	80	100	
8EX2	Electric Drives & their Control	3	1		3	20	80	100	
8EX3	Switch Gear & Protection	3	1		3	20	80	100	
8EX4.1	Image Processing and Pattern Recognitio	3			3	20	80	100	
8EX4.2	VHDL								
8EX4.3	Non conventional energy Sources								
8EX4.4	Robotics & Automation								
8EX5	Industrial Economic & Management			2	2	60	40	100	
8EX6	Electrical Drives & Control Lab			4	2	90	60	150	
8EX7								0	
8EX8	Seminar			2		60	40	100	
8EX9	Project Stage II			4	2	120	80	200	
8EXDC	Discipline/Extra-Curricular Activities							50	
	Total	12	3	12		410	540	1000	
	Total Teaching hours	27							

