

RAJASTHAN TECHNICAL UNIVERSITY, KOTA
B. Tech. Scheme

Course	Electrical Engineering	Code	EE
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SEMESTER III		Hrs. / Week			IA	Exam	Total
Subject Code	Title	L	T	P			
3EE1	Electronic Devices & Circuits	3	1	Theory Subjects	20	80	100
3EE2	Circuit Analysis-I	3	1		20	80	100
3EE3	Digital Electronics	3	1		20	80	100
3EE4	Object Oriented Programming	3			20	80	100
3EE5	Electrical Machines-I	3	1		20	80	100
3EE6	Advanced Engg. Mathematics-1	3			20	80	100
3EE7	Electronic Devices Lab	Practical laboratory courses		2	45	30	75
3EE8	Electrical Circuit Lab			2	30	20	50
3EE9	Digital Electronics Lab			2	45	30	75
3EE10	C++ Programming Lab			2	45	30	75
3EE11	Humanities & Social Sciences			2	45	30	75
3EEDC	Discipline & Extra Curricular Activity						50
	Total	18	4	10			1000

SEMESTER IV		Hrs. / Week			IA	Exam	Total
Subject Code	Title	L	T	P			
4EE1	Analog Electronics	3	1	Theory Subjects	20	80	100
4EE2	Circuit Analysis-II	3	1		20	80	100
4EE3	Electrical Measurements	3	1		20	80	100
4EE4	Generation of Electrical Power	3			20	80	100
4EE5	Electrical Machines-II	3	1		20	80	100
4EE6	Advanced Engineering Mathematics-II	3			20	80	100
4EE7	Analog Electronics Lab	Practical laboratory courses		2	60	40	100
4EE8	Electrical Measurement Lab			2	45	30	75
4EE9	Power System Design Lab			2	30	20	50
4EE10	Electrical Machines Lab			2	45	30	75
4EE11	Electrical Machine Design			2	30	20	50
4EEDC	Discipline & Extra Curricular Activity						50
	Total	18	4	10			1000

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SEMESTER V		Hrs. / Week			IA	Exam	Total
Subject Code	Title	L	T	P			
5EE1	Power Electronics	3	1	Theory Subjects	20	80	100
5EE2	Microprocessors & Computer Architecture	3			20	80	100
5EE3	Control Systems	3	1		20	80	100
5EE4	Data Base Management System	3			20	80	100
5EE5	Transmission & Distribution of Electrical Power	3	1		20	80	100
5EE6.1	Optimisation Techniques	3	1		20	80	100
5EE6.2	Principle of Communication Systems						
5EE6.3	Introduction to VLSI						
5EE7	Power Electronics Lab	Practical laboratory courses	2	45	30	75	
5EE8	Microprocessor Lab		2	45	30	75	
5EE9	System Programming Lab		2	45	30	75	
5EE10	DBMS Lab		2	45	30	75	
5EE11	Professional Ethics and Disaster Manage		2	30	20	50	
5EEDC	Discipline & Extra Curricular Activity						50
	Total	18	3	10			1000

SEMESTER VI		Hrs. / Week			IA	Exam	Total
Subject Code	Title	L	T	P			
6EE1	Modern Control Theory	3	1	Theory Subjects	20	80	100
6EE2	High Voltage Engineering	3			20	80	100
6EE3	Switchgear & Protection	3	1		20	80	100
6EE4	Advanced Power Electronics	3	1		20	80	100
6EE5	Smart Grid Technology	3			20	80	100
6EE6.1	Advanced Microprocessors	3	1		20	80	100
6EE6.2	Power System Instrumentation						
6EE6.3	Digital Communication and Information Theory						
6EE7	Control System Lab	Practical laboratory courses		2	45	30	75
6EE8	Power System Lab			2	45	30	75
6EE9	Advanced Power Electronics Lab			2	45	30	75
6EE10	Smart Grid Lab			2	45	30	75
6EE11	Entrepreneurship Development			2	30	20	50
6EEDC	Discipline & Extra Curricular Activity						50
	Total	18	3	10			1000

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SEMESTER VII		Hrs. / Week			IA	Exam	Total
Subject Code	Title	L	T	P			
7EE1	Power System Planning	3		Theory Subjects	20	80	100
7EE2	Power System Analysis	3	1		20	80	100
7EE3	Artificial Intelligence Techniques	3			20	80	100
7EE4	Non Conventional Energy Sources	3			20	80	100
7EE5	Power System Engineering	3	1		20	80	100
7EE6.1	Electromagnetic Field Theory	3	1		20	80	100
7EE6.2	Computer Aided Design of Electrical Machines						
7EE6.3	Economic Operation of Power Systems						
7EE7	Power System Planning Lab	Practical laboratory courses		2	45	30	75
7EE8	Power System Modelling & Simulation Lab			2	45	30	75
7EE9	Industrial Economics & Management			2	30	20	50
7EE10					0	0	
7EE11	Practical Training & Industrial visit			2		100	100
7EE12	Project-1			2	50		50
7EEDC	Discipline & Extra Curricular Activity						50
	Total	18	2	10			1000

SEMESTER VIII	Title	Hrs. / Week			IA	Exam	Total
Subject Code		L	T	P			
8EE1	EHV AC/DC Transmission	3	1	Theory Subjects	20	80	100
8EE2	Electric Drives and Their Control	3	1		20	80	100
8EE3	Protection of Power System	3			20	80	100
8EE4.1	Utilization of Electrical Power	3			20	80	100
8EE4.2	FACTS Devices & Their Applications						
8EE4.3	Power System Transients						
8EE5	Computer Based Power System Lab	Practical laboratory courses		3	60	40	100
8EE6	Electrical Drives and Control Lab			3	60	40	100
8EE7	High Voltage Engineering Lab			2			50
8EE8					0	0	
8EE9	Project-2			2	120	80	200
8EE10	Seminar			2	60	40	100
8EEDC	Discipline & Extra Curricular Activity						50
	Total	12	2	12			1000