

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

(An Autonomous Institute Affiliated to Rajasthan Technical University, Kota)

Teaching and Examination Scheme (For Students Admitted in A.Y. 2024-25 & onwards)

M.Tech.-Power Systems (PS)

M.Tech. I Year (Semester I)

Sr. No.	Branch	Year	Sem.	Course Code	Course Name	Category	Teaching & Learning Scheme					Exam Hrs.	Marks			Credit
							Classroom Instruction (CI) (in hours per semester)	Lab Instruction (LI) (in hours per semester)	Term Work (TW) and Self Learning (SL) (TW+ SL) (in hours per semester)	Total no. of Hours per semester	CIE		SEE	Total		
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1	PS	I	I	EEPL101	Modern Power System Analysis	PCC	3	0	0	45	90	3	40	60	100	3
2	PS	I	I	EEPL102	Power System Dynamics	PCC	3	0	0	45	90	3	40	60	100	3
3	PS	I	I	EEPL111	Modern Power System Protection	PEC- I	3	0	0	45	90	3	40	60	100	3
4	PS	I	I	EEPL112	Power Quality	PEC- I	3	0	0	45	90	3	40	60	100	
5	PS	I	I	EEPL113	Soft Computing Techniques	PEC- I	3	0	0	45	90	3	40	60	100	
6	PS	I	I	EEPL114	Electrical Power Distribution System	PEC- II	3	0	0	45	90	3	40	60	100	3
7	PS	I	I	EEPL115	System Planning and Reliability	PEC- II	3	0	0	45	90	3	40	60	100	
8	PS	I	I	EEPL116	Power System Operation and Control	PEC- II	3	0	0	45	90	3	40	60	100	
9	PS	I	I	NP40.01	Optimization Techniques	MCC	3	0	0	45	90	3	40	60	100	3
10	PS	I	I	NP99.XX	Audit Course-I (Choose subject from the to the list)	MCC	2	0	0			0	0	0	0	0
11	PS	I	I	EEPP130	Power System Simulation Lab -I	PCC	0	0	4			2	60	40	100	2
12	PS	I	I	EEPP131	Power System Dynamics Lab	PCC	0	0	4			2	60	40	100	2
13	PS	I	I	EEPA100	Social Outreach, Discipline & Extra Curricular Activities (SODECA)	SODECA	0	0	0			0	0	0	100	1
Total Credit20																

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M.Tech.-Power Systems (PS)

M.Tech. I Year (Semester II)

Sr. No.	Branch	Year	Sem.	Course Code	Course Name	Category	Teaching & Learning Scheme				Exam Hrs.	Marks			Credit	
							Classroom Instruction (CI) (in hours per semester)	Lab Instruction (LI) (in hours per semester)	Term Work (TW) and Self Learning (SL) (TW+ SL) (in hours per semester)	Total no. of Hours per semester		CIE	SEE	Total		
1	PS	I	II	EEPL201	Advanced Power Electronics	PCC	3	0	0	45	90	3	40	60	100	3
2	PS	I	II	EEPL202	Advanced Power System Optimization	PCC	3	0	0	45	90	3	40	60	100	3
3	PS	I	II	EEPL211	AI Application to Power Systems	PEC- III	3	0	0	45	90	3	40	60	100	3
4	PS	I	II	EEPL212	Modern control System and design	PEC- III	3	0	0	45	90	3	40	60	100	
5	PS	I	II	EEPL213	Power System Transients	PEC- III	3	0	0	45	90	3	40	60	100	
6	PS	I	II	EEPL214	SCADA System and Applications	PEC- IV	3	0	0	45	90	3	40	60	100	3
7	PS	I	II	EEPL215	Renewable Energy Systems	PEC- IV	3	0	0	45	90	3	40	60	100	
8	PS	I	II	EEPL216	High Voltage DC Transmission	PEC- IV	3	0	0	45	90	3	40	60	100	
9	PS	I	II	NP99.XX	Audit Course-II (Choose subject from the list)	MCC	2	0	0			0	0	0	0	0
10	PS	I	II	EEPP230	Power System Simulation Lab -II	PCC	0	0	4			2	60	40	100	2
11	PS	I	II	EEPP231	Power Electronics Applications to Power Systems Lab	PCC	0	0	4			2	60	40	100	2
12	PS	I	II	EEPD250	Mini Project With Seminar	REW	0	0	4			2	120	80	200	2
13	PS	I	II	ECPA200	Social Outreach, Discipline & Extra Curricular Activities (SODECA)	SODECA	0	0	0			0	0	0	100	1
Total Credit 19																

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M.Tech.-Power Systems (PS)

Sr. No.	Branch	Year	Sem.	Course Code	Course Name	Category	Teaching & Learning Scheme					Exam Hrs.	Marks			Credit
							Classroom Instruction (CI) (in hours per semester)	Lab Instruction (LI) (in hours per semester)	Term Work (TW) and Self Learning (SL) (TW+ SL) (in hours per semester)	Total no. of Hours per semester	CIE		SEE	Total		
1	PS	II	III	EEPL311	Power Sector Economics, regulation & Restructuring	PEC-V	3	0	0	45	90	3	40	60	100	3
2	PS	II	III	EEP312	FACTS and Custom Power Devices	PEC-V	3	0	0	45	90	3	40	60	100	
3	PS	II	III	EEPL313	Energy Management & Audit	PEC-V	3	0	0	45	90	3	40	60	100	
4	PS	II	III	NP 40.02	Research Methodology & IPR	MCC	3	0	0	45	90	3	40	60	100	3
5	PS	II	III		Open Elective (Choose subject from the list)	MCC	3	0	0	45	90	3	40	60	100	3
6	PS	II	III	EEPD360	Pre Dissertation	REW	0	0	2			2	240	160	400	12
Total Credit																21

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M.Tech.-Power Systems (PS)

M.Tech. II Year (Semester IV)

Sr. No.	Branch	Year	Sem.	Course Code	Course Name	Category	Teaching & Learning Scheme				Exam Hrs.	Marks			Credit	
							Classroom Instruction (CI) (in hours per semester)	Lab Instruction (LI) (in hours per semester)	Term Work (TW) and Self Learning (SL) (TW+ SL) (in hours per semester)	Total no. of Hours per semester						
												L	T	P		SL
1	PS	II	IV	EEPD470	Dissertation	REW	0	0	32			4	360	240	600	20
Total Credit																20