

**Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur**  
(An Autonomous Institute Affiliated to Rajasthan Technical University, Kota)

**Teaching and Examination Scheme-2024-25**

**M.Tech\_Power Systems (PS)**

Sr. No.	Course	YEAR	SEM.	Course Code	Course Name	Category	Teaching Scheme			Exam Hrs.	Marks			Credit
							L	T	P		CIE	SEE	Total	
1	PS	I	I	EEPL101	Modern Power System Analysis	PCC	3	0	0	3	40	60	100	3
2	PS	I	I	EEPL102	Power System Dynamics	PCC	3	0	0	3	40	60	100	3
3	PS	I	I	EEPL111	Modern Power System Protection	PEC-I	3	0	0	3	40	60	100	3
4	PS	I	I	EEPL112	Power Quality	PEC-I	3	0	0	3	40	60	100	
5	PS	I	I	EEPL113	Soft Computing Techniques	PEC-I	3	0	0	3	40	60	100	
6	PS	I	I	EEPL114	Electrical Power Distribution System	PEC-II	3	0	0	3	40	60	100	3
7	PS	I	I	EEPL115	System Planning and Reliability	PEC-II	3	0	0	3	40	60	100	
8	PS	I	I	EEPL116	Power System Operation and Control	PEC-II	3	0	0	3	40	60	100	
9	PS	I	I	NP40.01	Optimization Techniques	MCC	3	0	0	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
											<b>Total Credit</b>			<b>20</b>

*(Dr. K. R. Niazi)*

*(Dr. Kapil Shukla)*

*(Dr. Jayashri Vajpai)*

*(Dr. Santaraz Nawaz)*

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							L	T	P		CIE	SEE	Total	
1	PS	I	II	EEPL201	Advanced Power Electronics	PCC	3	0	0	3	40	60	100	3
2	PS	I	II	EEPL202	Advanced Power System Optimization	PCC	3	0	0	3	40	60	100	3
3	PS	I	II	EEPL211	AI Application to Power Systems	PEC-III	3	0	0	3	40	60	100	3
4	PS	I	II	EEPL212	Modern control System and design	PEC-III	3	0	0	3	40	60	100	
5	PS	I	II	EEPL213	Power System Transients	PEC-III	3	0	0	3	40	60	100	
6	PS	I	II	EEPL214	SCADA System and Applications	PEC-IV	3	0	0	3	40	60	100	3
7	PS	I	II	EEPL215	Renewable Energy Systems	PEC-IV	3	0	0	3	40	60	100	
8	PS	I	II	EEPL216	High Voltage DC Transmission	PEC-IV	3	0	0	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
											<b>Total Credit</b>			<b>19</b>

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*Keshav*

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							L	T	P		CIE	SEE	Total	
1	PS	II	III	EEPL311	Power Sector Economics, regulation & Restructuring	PEC- V	3	0	0	3	40	60	100	3
2	PS	II	III	EEP312	FACTS and Custom Power Devices	PEC- V	3	0	0	3	40	60	100	
3	PS	II	III	EEPL313	Energy Management & Audit	PEC- V	3	0	0	3	40	60	100	
4	PS	II	III	EENP 40.02	Research Methodology & IPR	MCC	3	0	0	3	40	60	100	3
5	PS	II	III		Open Elective (Choose subject from the list)	MCC	3	0	0	3	40	60	100	3
6	PS	II	III	EEPD360	Pre Dissertation	REW	0	0	2	2	240	160	400	12
											<b>Total Credit</b>			<b>21</b>
1	PS	II	IV	EEPD470	Dissertation	REW	0	0	32	4	360	240	600	20
											<b>Total Credit</b>			<b>20</b>

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Sr. No.	Course	YEAR	SEM.	Course Code	Course Name	Category	Teaching Scheme			Exam Hrs.	Marks			Credit
							L	T	P		CIE	SEE	Total	

**Summary of Credit Distribution\_M.Tech\_Power Systems (PS)**

Category	Proposed Credit Distribution for M.Tech. Program	Credit Distribution proposed by Department	Remarks (Discrepance if any)
PCC (Program Core Courses)	35	20	0
PEC (Program Elective Courses)-I		15	
PEC (Program Elective Courses)-II			
PEC (Program Elective Courses)-III			
PEC (Program Elective Courses)-IV			
PEC (Program Elective Courses)-V	34	34	0
REW(Research Work)		9	0
MCC (Mandatory Course)		2	0
SODECA	80	80	0
<b>Total</b>			

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**M.Tech\_Power Systems (PS)**

Sr. No.	Course	YEAR	SEM.	Course Code	Course Name	Category	Teaching Scheme			Exam Hrs.	Marks			Credit
							L	T	P		CIE	SEE	Total	

**Summary of Credit Distribution\_M.Tech\_Power Systems (PS)**

Semester	Proposed Credit Distribution for M.Tech. Program	Credit Distribution proposed by Department	Remarks (Discrepance if any)
I	20	20	0
II	19	19	0
III	21	21	0
IV	20	20	0
<b>Total</b>	<b>80</b>	<b>80</b>	<b>0</b>

1/20/24



