

Rajasthan Technical University, Kota M.Tech. (Full-Time) Scheme

**BRANCH CODE** PS

**SEMESTER** I

Course Code	Course	Hrs. / Week			IA	Exam	Total
		L	T	P			
1MPS1	Power System Analysis	3	2		25	100	125
1MPS2	Advanced Power Electronics	3	2		25	100	125
1MPS3	Power System Stability	3	2		25	100	125
1MPS4	Elective I	3	2		25	100	125
	1MPS4.1 Power Generation Sources						
	1MPS4.2 Economic Operation of Power System						
	1MPS4.3 Numerical Methods & Computer Programming						
1MPS5	MATLAB Programming Lab			3	60	40	100
<b>TOTAL</b>		12	8	3	160	440	600

**SEMESTER** II

Course Code	Course	Hrs. / Week			IA	Exam	Total
		L	T	P			
2MPS1	Electric Drives & Their Control	3	2		25	100	125
2MPS2	Advanced Power System Protection	3	2		25	100	125
2MPS3	EHV AC/DC Transmission	3	2		25	100	125
2MPS4	Elective II	3	2		25	100	125
	2MPS4.1 Operation & Control of Power Systems						
	2MPS4.2 Power System Dynamics						
	2MPS4.3 Power System Planning & Reliability						
2MPS5	Power System Modelling & Simulation Lab			3	60	40	100
<b>TOTAL</b>		12	8	3	160	440	600

**SEMESTER** III

Course Code	Course	Hrs. / Week			IA	Exam	Total
		L	T	P			
3MPS1	Elective III	3	2		25	100	125
	3MPS1.1 Flexible AC Transmission Systems						
	3MPS1.2 High Voltage Direct Current Transmission						
	3MPS1.3 Power System Transients & High Voltage Engineering						
3MPS2	Elective IV	3	2		25	100	125
	3MPS2.1 Advanced Power System						
	3MPS2.2 Excitation of Synchronous Machines & Their Control						
	3MPS2.3 AI Applications to Power Systems						
3MPS3	Dissertation Stage -I			2	100		100
3MPS4	Seminar			4	150		150
<b>TOTAL</b>		6	4	6	300	200	500

**SEMESTER** IV

Course Code	Course	Hrs. / Week			IA	Exam	Total
		L	T	P			
4MPS1	Dissertation Stage -II			16		500	500

<b>Grand Total</b>	30	20	28	620	1580	2200
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\* As per the guidelines issued in the Previous faculty meeting dated 08/05/2008 in terms of electives.