



M.Tech: Power Electronics and Drives

ELECTRICAL ENGINEERING DEPARTMENT

UNIVERSITY OF ENGINEERING & MANAGEMENT JAIPUR

Proposed Structure of New Scheme as per R & R Manual of PG Programmes in Power Electronics and Drive

M. Tech Programme Structure for Full Time

Semester	Course Code Credits (L T P)						Semester Credits
I	EET-606 3(2 1 0)	EET-607 3(2 1 0)	EET-608 3(2 1 0)	EET-609 3(2 1 0)	EET-622 3(2 1 0)	EET-602 2(0 0 3)	17
II	PE-1 3(2 1 0)	PE-2 3(2 1 0)	PE-3 3(2 1 0)	PE-4 3(2 1 0)	PE-5 3(2 1 0)	PE-6 3(2 1 0)	18
III	EES-702 Seminar 4		EED-703A Dissertation 16				20
IV	EED-703B Dissertation 18						18
Total							73

Programme Core

Course Code	Title of the Subject	PRS	PRE	CWS	MTE	ETE
EET-606	Power Conversion Techniques	-	-	20	30	50
EET-607	Industrial Control Electronics	-	-	20	30	50
EET-608	Intelligent Control Techniques	-	-	20	30	50
EET-609	Switched Mode Power Conversion	-	-	20	30	50
EET-622	Electric Drives and their Control	-	-	20	30	50
EET-602	Power Electronics & Drives Lab	60	40	-	-	-
EES-702	Seminar	-	-	-	-	-
EED-703A	Dissertation	-	-	-	-	-
EET-703B	Dissertation	-	-	-	-	-

Professional Elective

Course Code	Title of the Subject	PRS	PRE	CWS	MTE	ETE
EET-610	EHV AC Transmission System	-	-	20	30	50
EET-615	Flexible AC Transmission Systems	-	-	20	30	50
EET-616	Integrated Energy Systems	-	-	20	30	50
EET-618	Modern Control Theory	-	-	20	30	50
EET-620	Advanced Theory and Analysis of AC Machines	-	-	20	30	50
EET-621	Excitation of synchronous Machines and their Control	-	-	20	30	50
EET-625	HVDC Transmission	-	-	20	30	50
EET-626	Digital Controller Application in Power Converters	-	-	20	30	50
EET-627	Advanced Electrical Drives	-	-	20	30	50
EET-628	PWM Converters and Applications	-	-	20	30	50
EET-629	Embedded System Design	-	-	20	30	50
EET-630	Optimization Algorithms	-	-	20	30	50
EET-631	Digital signal processing & applications	-	-	20	30	50
EET-632	Computer Networks	-	-	20	30	50
EET-633	Renewable Power Generation and Control	-	-	20	30	50
EET-634	Advances in Power Transmission & Distribution	-	-	20	30	50
EET-635	Applications of Power Electronics in Power Systems	-	-	20	30	50
EET-636	Modeling & Simulation of Power Electronic Systems	-	-	20	30	50
EET-637	Application of Power Electronics in Smart Grid	-	-	20	30	50
EET-638	Power System Quality	-	-	20	30	50

Profession Elective (EPE-5 & EPE-6): To be offered by other department

Code	Courses from Professional Electives	PRS	PRE	CWS	MTE	ETE
		-	-	20	30	50