

Sarvepalli Radhakrishnan University, Bhopal

SCHEME OF EXAMINATION AS PER AICTE MODEL CURRICULAM W.E.F JULY-2020



Department of Electrical Engineering (EE)

First Semester-Master of Technology

Specialization in Power Electronics & Drives
Marks & Credits Distribution of Subjects

S. No.	Subject Code	Core/Elective	Name of Subject	Theory Slot			Practical Slot		Total Marks	Credits Alloted Subject wise			Total Credits
				End Sem	MID Sem Test (Two Test Avg.)	Quiz & Assignments	End Sem	Term Work		Lectures per week			
										L	T	P	
1	MTPE11	Core1	Electric Drives System	100	30	30			160	3	1	0	4
2	MTPE12	Core2	Modeling and Analysis of Electrical Machines	100	30	30			160	3	1	0	4
3	MTPE13	PE1	Elective-I	100	30	30			160	3	1	0	4
4	MTPE14	PE2	Elective-II	100	30	30			160	3	1	0	4
5	MTPE15	Core3	Research Methodology and IPR	100	30	30			160	3	1	0	4
6	MTPE16	Lab1	Electrical Drives Laboratory				50	50	100	0	0	4	2
7	MTPE17	Lab2	Electrical Machines Laboratory/Power Quality lab				50	50	100	0	0	4	2
8	MTPE18	Audit-I	Audit I							2			
TOTAL				500	150	150	100	100	1000	17	5	8	24
GRAND TOTAL : 1000							L : Lecture		T: Tutorial		P : Practical		

NOTE: Mid Semester Tests (MST) Taken at Least twice Per Semester

Elective-I		Elective-II	
MTPE13 (A) Power Quality		MTPE14 (A) Static VAR Controllers and Harmonic Filtering	
MTPE13 (B) Advanced Power Electronic Circuits		MTPE14 (B) PWM converter and Applications	
MTPE13 (C) Dynamics of Electrical Machines		MTPE14 (C) Power Semiconductor Devices & Modeling	

Audit I

MTPE18(A) English for Research Paper Writing, MTPE18(B) Disaster Management, MTPE18(C) Value Education

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Department of Electrical Engineering (EE)

Second Semester-Master of Technology

Specilazation in Power Electronics & Drives

Marks & Credits Distribution of Subjects



S. No.	Subject Code	Core/Elective	Name of Subject	Theory Slot			Practical Slot		Total Marks	Credits Alloted Subject wise			Total Credits
				End Sem	MID Sem Test (Two Test Avg.)	Quiz & Assignments	End Sem	Term Work		Lectures per week			
										L	T	P	
1	MTPE21	Core3	Power Electronic Converters	100	30	30			160	4	1	0	5
2	MTPE22	Core4	Digital Control of Power Electronic and Drive Systems	100	30	30			160	4	1	0	5
3	MTPE23	PE3	Elective-III	100	30	30			160	4	1	0	5
4	MTPE24	PE4	Elective-IV	100	30	30			160	4	1	0	5
5	MTPE25	Core5	Minior Project with Seminar				100	60	160	-	0	4	2
6	MTPE26	Lab3	Power Electronics Laboratory				50	50	100	0	0	2	1
7	MTPE27	Lab4	Micro-controller Lab				50	50	100	0	0	2	1
8	MTPE28	Audit II	Audit II							2	0	0	0
TOTAL				400	120	120	200	160	1000	18	4	8	24
GRAND TOTAL : 1000							L : Lecture		T: Tutorial		P : Practical		
NOTE: Mid Semester Tests (MST) Taken at Least twice Per Semester													
Elective-III								Elective-IV					
MTPE23 (A) Industrial Load Modeling and Control						MTPE24 (A) Smart Grids							
MTPE23 (B) Switched mode and Resonant Converters						MTPE24 (B) Advanced microcontroller based systems							
MTPE23 (C) Advanced Digital Signal Processing						MTPE24 (C) Distributed Generation							
Audit II													
MTPE28(A) Constitution of India, MTPE28(B) Stress Management by Yoga, MTPE28(C) Pedagogy Studies													

Sarvepalli Radhakrishnan University, Bhopal

SCHEME OF EXAMINATION AS PER AICTE MODEL CURRICULAM W.E.F JULY-2



Department of Electrical Engineering (EE)

Third Semester-Master of Technology

Specilazation in Power Electronics & Drives

Marks & Credits Distribution of Subjects

S. No.	Subject Code	Core/Elective	Name of Subject	Theory Slot			Practical Slot		Total Marks	Credits Alloted Subject wise		
				End Sem	MID Sem Test (Two Test Avg.)	Quiz & Assignments	End Sem	Term Work		Lectures per week		
										L	T	P
1	MTPE31	PE5	Elective-V	100	30	30	0	0	160	4	1	0
2	MTPE32	OE	Open Elective-VI	100	30	30	0	0	160	4	1	0
3	MTPE33	Major Project	Phase-I Dissertation				400	280	680	0	0	20
TOTAL				200	60	60	400	280	1000	8	2	20
GRAND TOTAL : 1000 MARKS							L : Lecture	T: Tutorial		P : Pra c		
Elective-V							Open Elective-VI					
MTPE31 (A) SCADA Systems and Applications						MTPE32 (A) Industrial Safety						
						MTPE32 (B)1. Business Analytics, 2. Operations Research						
MTPE31 (C) HVDC						MTPE32 (C) Cost Management of Engineering Projects						

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SCHEME OF EXAMINATION AS PER AICTE MODEL CURRICULAM W.E.F JULY-2020



Department of Electrical Engineering (EE)

Fourth Semester-Master of Technology

Specilazation in Power Electronics & Drives

Marks & Credits Distribution of Subjects

S. No	Subject Code	Core/Elective	Name of Subject	Theory Slot			Practical Slot		Total Marks	Credits Alloted Subject wise		
				End Sem	MID Sem Test (Two Test Avg.)	Quiz & Assignments	End Sem	Term Work		Lectures per week		
										L	T	P
1	MTPE41	Major Project	Phase-II Dissertation	0	0	0	500	500	1000	0	0	30
TOTAL							500	500	1000	0	0	30
GRAND TOTAL : 1000 MARKS							L : Lecture			T: Tutorial		P : Practica I