

Technocrats Institute of Technology, Bhopal
M. Tech Power Electronics Scheme of Examination
First Semester

S. No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignments /Quiz	End Sem. Practical / Viva	Practical Record/ Assignment/Quiz /Presentation	
1.	MTPE 101	Electric Drives System	3	0	0	3	70	20	10	-	-	100
2.	MTPE 102	Power Electronics Devices & Phase Controlled Circuits	3	0	0	3	70	20	10	-	-	100
3.	MTPE 103	Program Elective-I	3	0	0	3	70	20	10	-	-	100
4.	MTPE 104	Program Elective-II	3	0	0	3	70	20	10	-	-	100
5.	MTPE 105	Research Methodology and IPR	2	0	0	2	70	20	10	-	-	100
6.	MTPE 106	Lab-I Power Electronics Lab	0	0	4	2	-	-	-	90	60	150
7.	MTPE 107	Lab-II Renewable Energy Lab	0	0	4	2	-	-	-	90	60	150
8.	MTPE 108-	Audit-I English for Research Paper Writing	2	0	0	0	-	-	-	-	-	-
		Total	16	0	8	18	350	100	50	180	120	800

Program Elective-I	Program Elective-II
(A) Advanced Power Electronic Circuits	(A) Static VAR Controllers and Harmonic Filtering
(B) Power Quality	(B) Electric and Hybrid Vehicles
(C) Advanced Control System	(C) Power Semiconductor Devices

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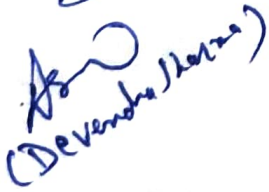
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Second Semester

S.No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam	Tests (Two)	Assignments /Quiz	End Sem. Practical / Viva	Practical Record/ Assignment/ Quiz/ Presentation	
1.	MTPE 201	Power Electronic Converters	3	0	0	3	70	20	10	-	-	100
2.	MTPE 202	Digital Control of Power Electronics and Drive Systems	3	0	0	3	70	20	10	-	-	100
3.	MTPE 203	Program Elective-III	3	0	0	3	70	20	10	-	-	100
4.	MTPE 204	Program Elective-IV	3	0	0	3	70	20	10	-	-	100
5.	MTPE 205	Lab-III Electrical Drives Laboratory	0	0	4	2	-	-	-	90	60	150
6.	MTPE 206	Lab-IV Adv. Microprocessor & DSP App.	0	0	4	2	-	-	-	90	60	150
7.	MTPE 207	Audit-2 Disaster Management	2	0	0	0	-	-	-	-	-	-
8.	MTPE 208	Mini Project	0	0	4	2	-	-	-	-	50	50
		Total	14	0	12	18	280	80	40	180	170	750

Program Elective-III	Program Elective-IV
(A) Switched Mode and Resonant Converters	(A) Advanced Microprocessor and Application
(B) Digital Signal Processors	(B) Distributed Generation
(C) Power Electronics App. To Power Systems	(C) Smart Grids




 Dr. M. J. Doshi (Devendra Doshi)





Third Semester

S. No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignments /Quiz	End Sem. Practical/Viva	Practical Record/ Assignment/Quiz /Presentation	
1.	MTPE 301	Program Elective-V	3	0	0	3	70	20	10	-	-	100
2.	MTPE 302	Open Elective	3	0	0	3	70	20	10	-	-	100
3.	MTPE 303	Dissertation (Part-I)	0	0	20	10	-	-	-	120	80	200
		Total	6	0	20	16	140	40	20	120	80	400

Program Elective-V	Open Elective
(A) SCADA Systems and Applications	(A) Industrial safety
(B) FACTS and Custom Power Devices	(B) Waste to Energy
(C) HVDC system	(C) Composite Materials


 (Devendra Sharma)
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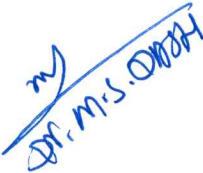
 Praveen





Fourth Semester

S.No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam	Tests (Two)	Assignments / Quiz	End Sem. Practical/ Viva	Practical Record/ Assignment/ Quiz / Presentation	
1	MTPE 401	Dissertation (Part II)	0	0	32	16	-	-	-	300	200	500
		Total	0	0	32	16	-	-	-	300	200	500


 Dr. M.S. Datta

 Dr. Devendra Sharma
