

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	Professional Elective-I	3	0	0	3	70	20	10	-	-	100
4.	MTPE 104	Professional Elective-II	3	0	0	3	70	20	10	-	-	100
5.	MTPE 105	Lab-I Power Electronics Lab	0	0	4	2	-	-	-	90	60	150
7.	MTPE 106	Lab-II Renewable Energy Lab	0	0	4	2	-	-	-	90	60	150
8.	MTPE 107	Research Methodology and IPR	0	0	4	2	-	-	-	90	60	150
9.	MTPE 108-Audit-I	English for Research Paper Writing	2	0	0	0	-	-	-	-	-	-
		Total	14	0	12	18	280	80	40	270	180	850

Professional Elective-I	Professional Elective-II
(A) Advanced Power Electronic Circuits	(A) Static VAR Controllers and Harmonic Filtering
(B) Power Quality	(B) Power Converter and Applications
(C) Advanced Control System	(C) Power Semiconductor Devices

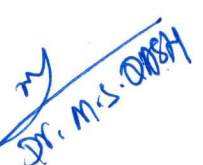
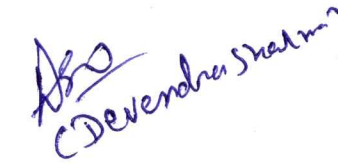
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 PM M. JONSH
 (Deven Sharma)
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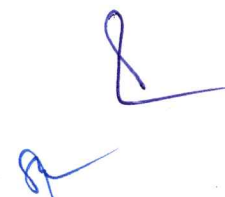
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Second Semester

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	-	3	70	20	10	-	-	100
2.	MTPE 202	Digital Control of Power Electronics and Drive Systems	3	0	-	3	70	20	10	-	-	100
3.	MTPE 203	Professional Elective-III	3	0	-	3	70	20	10	-	-	100
4.	MTPE 204	Professional Elective-IV	3	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 Micro-controller Lab / Digital Signal Processing Lab	0	0	4	2	-	-	-	90	60	150
7.	MTPE 207	Pre Dissertation Synopsis & Paper Publication	0	0	4	2	-	-	-	90	60	150
8.	MTPE 208 Audit-II	Disaster Management	2	0	0	0	-	-	-	-	-	-
		Total	14	0	12	18	280	80	40	270	180	850

Professional Elective-III	Professional 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

Third Semester

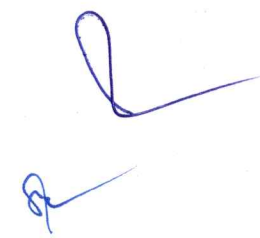
S.No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignments /Quiz	End Sem. Practical/Viva	Practical Record/ Assignment/Quiz /Presentation	
1.	MTPE 301	Professional Elective-V	3	0	0	3	70	20	10	-	-	100
2.	MTPE 302	Open Elective	3	0	0	3	70	20	10	-	-	100
3.	MTPE 303	Seminar	0	0	4	2	-	-	-	-	100	100
4.	MTPE 304	Dissertation (Part I) (Implementation and Validation)	0	0	16	8	-	-	-	120	80	200
		Total	6	0	20	16	140	40	20	120	180	500

Professional 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



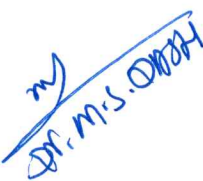
 Dr. M. S. Qureshi

 (Devendra Sharma)

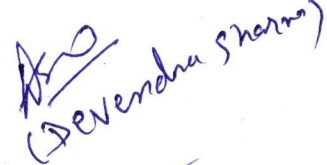


Fourth Semester

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



(Devendra Sharma)

