M. Tech. (Power Electronics and Power System) (Semester-I)

			Course	Plan for Each W	eek (Hrs)			Evaluation (Points)					
Sr. No.	Course	Code	Lectures	Laboratory	Tutorial	Credits	T1	Т2	End Semester	End Semester Weightage (%)	Termwork	Seminar	Total
1	Advanced Power Electronics	MTPX 111	3	-	2	4	20	20	100	60	25		125
2	Computer Application in Power System	MTPX 112	3	-	2	4	20	20	100	60	25	-1-	125
3	Modelling and Analysis of Electrical Machines	MTPX 113	3	-	2	4	20	20	100	60	25	1	125
4	Dynamics of Linear Systems	MTPX 114	3		2	4	20	20	100	60	25		125
5	Seminar-I*	MTPX 115			4	2					50	75	125
6	Elective – I	MTPX 116 to MTPX 119	3		2	4	20	20	100	60	25		125
	Total		15		14	22							750

NOTE: (1) Test 1, Test 2 and end semester weightagepoints will be added and shown as the theory points in the mark sheet.

⁽²⁾ For passing, student must secure minimum 50% points in each course with all heads of passing taken together and minimum 50% points in the end semester examination.

^{*}Student has to present a seminar, on a topic selected in consultation with assigned Faculty member, in the allotted seminar slot as per the academic calendar. Seminar-I will be examined by the Faculties.

Evaluation process for Seminar –I

	Level of Topic selected	Reproduction of simulation results	Presentation	Suggested improvements in the presented work
Points	15	15	35	10

Elective – I Courses

Sr. No.	Code	Elective
1.	MTPX 116	Digital Simulation of Power Electronics System
2.	MTPX 117	Power System Planning and Reliability
3.	MTPX 118	Artificial Intelligence for Power System
4.	MTPX 119	DSP Control in Power Electronics

Duration for Test I and Test II: 01 Hour
Duration for End Semester : 03 Hour

M. Tech. (Power Electronics and Power System) (Semester – II)

			Course P	Plan for Each W	Veek (Hrs)		Evaluation (Points)						
Sr. No.	Course	Code	Lectures	Laboratory	Tutorial	Credits	T1	T2	End Semester	End Semester Weightage (%)	Term work	Seminar	Total
1	Application of Power Electronics in Power System	MTPX 121	3		2	4	20	20	100	60	25		125
2	Advanced Control of Electrical Drives	MTPX 122	3		2	4	20	20	100	60	25		125
3	Power System Dynamics and Control	MTPX 123	3		2	4	20	20	100	60	25		125
4	Protection in Power System	MTPX 124	3	_	2	4	20	20	100	60	25		125
5	Hardware Lab	MTPX 125			4	2					50	75	125
6	Elective II	MTPX 126 to MTPX 129	3		2	4	20	20	100	60	25		125
	Total		15		14	22							750

NOTE: (1) Test I, Test II and end semester weightage points will be added and shown as the theory points in the mark sheet.

(2) For passing, student must secure minimum 50% points in each course with all heads of passing taken together and minimum 50% points in the end semester examination.

Elective – II Courses

Sr. No.	Code	Elective
1.	MTPX 126	Network Principles and Protocols
2.	MTPX 127	Optimization Techniques
3.	MTPX 128	Application of Power Electronics in Renewable Energy System
4.	MTPX 129	Applied Nonlinear Control

Duration for Test I and Test II: **01 Hour**Duration for End Semester: **03 Hour**

M. Tech. (Power Electronics and Power System) (Semester – III)

			Course Pl	an for Each	Week (Hrs)		Evaluation (Points)		
Sr. No	Course	Code	Lectures	Lab	Tutorial	Credits	Report	Seminar	Total
1	Seminar on Literature Review	MTPX231			4 [#] +12 ^{\$}	8	50*	50*	100
2	Dissertation Stage-I Seminar	MTPX232		_	2#+14\$	8	50*	50*	100
	Total				6#+26\$	16			200

^{*} Examined by supervisor and at least one internal examiner. *Contact hours with mentor/supervisor/guide, \$Self learning hours
For passing, Student must secure minimum 50% points in each Course with all headof passing taken together and minimum 50% points in the end semester examination.

M. Tech. (Power Electronics and Power System) (Semester – IV)

			Cour	rse Plan for Ea	ach Week (Hrs)	, (12	Evaluation		
Sr. No	Course	Code	Lectures	Lab	Tutorial	Credits	Report	Seminar	Total
1	Dissertation Stage-II Seminar (Pre-Synopsis)	MTPX241			4 [#] +12 ^{\$}	8	50*	50*	100
2	Dissertation & Viva-Voce	MTPX242		-	6#+18\$	12	100**	50**	150
Total					10#+30\$	20			250

^{*} Examined by supervisor and at least one internal examiner

^{**} Examined by supervisor and one approved external examiner. *Contact hours with mentor/supervisor/guide, *Self learning hours For passing, Student must secure minimum 50% points in each Course with all headof passing taken together and minimum 50% points in the end semester examination.