



School of Engineering and Technology
Department of Electrical and Electronics Engineering
Course Structure M. Tech. in Electrical Power System

Year: First

Semester: I

Sr. No.	Course Code	Group Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				Examination Scheme				Total Marks
				L	T	P	C	Formative Assessment (CIA)		Summative Assessment (ESE)		
								Course	Lab	Course	Lab	
1	PEP101	PC	Soft Computing Techniques	4	0	0	4	50	0	100	0	150
2	PEP102	PC	Computer Aided Power System	4	0	0	4	50	0	100	0	150
3	PEP103	PC	Power System Modeling	4	0	0	4	50	0	100	0	150
4	17RDP101	UC	Reseach Methodology	4	0	0	4	50	0	100	0	150
5	PEPE01 TO PEPE04	PC	Program Elective I	4	0	0	4	50	0	100	0	150
6	PEP111	PC	Lab Practice I	0	0	4	2	0	50	0	50	100
			TOTAL	20	0	4	22	250	50	500	50	850

List of Program Elective I

1	PEPE01	PC	Advanced Power Electronics
2	PEPE02	PC	High Voltage Engineering
3	PEPE03	PC	Digital Signal Processing
4	PEPE04	PC	VLSI Design

CIA: Continuous Internal Assessment L: Theory Lecture T: Tutorial P: Practical TH: Theory Exam.	UC: University Core PC: Programme Core PE: Programme Elective	CIA	Weightage	Description
		CIA 1	10%	Home Assignment
		CIA 2	20%	Mid-Term Exam (MTE)
		CIA 3	10%	Seminar Presentation
		CIA 4	10%	Research Based Activity
		TOTAL	50%	



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Semester: II

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				L	T	P	C	Formative Assessment (CIA)		Summative Assessment (ESE)		
								Course	Lab	Course	Lab	
1	PEP201	PC	Advanced Distribution System	4	0	0	4	50	0	100	0	150
2	PEP202	PC	Power System Control and Stability	4	0	0	4	50	0	100	0	150
3	PEP203	PC	Power Quality and Mitigation Techniques	4	0	0	4	50	0	100	0	150
4	PEPE05 TO PEPE08	PC	Program Elective II	4	0	0	4	50	0	100	0	150
5	PEPE09 TO PEPE12	PC	Program Elective III	4	0	0	4	50	0	100	0	150
6	PEP211	PC	Seminar I	0	0	4	2	0	50	0	50	100
7	PEP212	PC	Lab Practice II	0	0	4	2	0	50	0	50	100
			TOTAL	20	0	4	22	250	50	500	50	850

List of Program Elective II

1	PEPE05	PC	Industrial Automation and Control
2	PEPE06	PC	EHV-AC Transmission
3	PEPE07	PC	Digital Image Processing
4	PEPE08	PC	Wireless Communication and Networks

List of Program Elective III

1	PEPE09	PC	Power System Planning and Reliability
2	PEPE10	PC	Project Management
3	PEPE11	PC	HVDC and FACTS
4	PEPE12	PC	Energy Audit and Management

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		CIA 1	10%	Home Assignment
		CIA 2	20%	Mid-Term Exam (MTE)
		CIA 3	10%	Seminar Presentation
		CIA 4	10%	Research Based Activity
		TOTAL	50%	



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Semester: III

Sr. No.	Course Code	Group Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				Examination Scheme				Total Marks
				L	T	P	C	Formative Assessment (CIA)		Summative Assessment (ESE)		
								Course	Lab	Course	Lab	
1	PEP311	PC	Seminar II	0	0	6	3	0	50	0	50	100
2	PEP312	PC	Dissertation I	0	0	20	10	0	100	0	100	200
3	PEP313	PC	Internship (45-60days in industry)	0	0	-	2	0	0	0	50	50
			TOTAL	0	0	26	15	0	150	0	200	350

Year: Second

Semester: IV

Sr. No.	Course Code	Group Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				Examination Scheme					Total Marks
				L	T	P	C	Formative Assessment			Summative Assessment		
								Continuous Internal Assessment (CIA)					
								Course	Tut	Lab	Course	Lab	
1	PEP411	PC	Seminar III	0	0	8	4	0	0	100	0	100	200
2	PEP412	PC	Dissertation II	0	0	32	16	0	0	100	0	100	200
			TOTAL	0	0	40	20	0	0	200	0	200	400