

SR UNIVERSITY						
Department of Electrical and Electronics Engineering						
R25 Course Structure-M.Tech EEE (Power Electronics[PE])						
I SEM						
S. No.	Course Code	Course	Hours / Week			
			L	T	P/D	C
1	25PEL302PC501	Advanced Power Electronic Converters	3	0	2	4
2	25PEL302PC502	Power Electronic Control of DC Drives	3	0	2	4
3	25PEL400PC503	Machine Modelling Analysis	4	0	0	4
4	25CAI206CR501	AI Assisted Problem Solving Using Python	2	0	6	5
5	25BUS400RM501	Sustainability, Critical Thinking, Research Methodology and IPR	4	0	0	4
6	25HUM302CR502	Life Skills: Entrepreneurship, Language, Communication and Personality	3	0	2	4
Total			19	0	12	25
II SEM						
S. No.	Course Code	Course	Hours / Week			
			L	T	P/D	C
1	25PEL402PC504	Power Quality Improvement Techniques	4	0	2	5
2	25PEL402PC505	Power Electronic Control of AC Drives	4	0	2	5
3	25PEL400PC506	Dynamics of Electrical Machines	4	0	0	4
4	25PEL300PC507	Control and Grid Integration of RES	3	0	0	3
5	25PEL400PC508	Power Converters for Microgrid	4	0	0	4
6	25HUM204CR503	Aptitude and Reasoning	2	0	4	4
Total			21	0	8	25
III SEM						
S. No.	Course Code	Course	Hours / Week			
			L	T	P/D	C
1	25PEL012PR601	Capstone Project	0	0	12	6
2		Program Elective-I	3	0	0	3

3		Program Elective- II	3	0	0	3
4		Open Elective	3	0	0	3
		OR				
1	25PEL030PR602	Industrial Project/R&D Project/Industry Internship/Start-up/Externship	0	0	30	15
Total			9	0	12	15
IV SEM						
S. No.	Course Code	Course	Hours / Week			
			L	T	P/D	C
1	25PEL030PR603	Major Project/Industrial Project/R&D Project/Industry Internship/Start-up/Externship	0	0	30	15
Total			0	0	30	15
		Total Credits				80
Program Electives						
S. No.	Course Code	Program Electives I and II	Hours / Week			
			L	T	P/D	C
1	25PEL300PE601	Smart Grid Technologies	3	0	0	3
2	25PEL300PE602	Hybrid Vehicle Systems	3	0	0	3
3	25PEL300PE603	Data Science Applications in Power Electronics	3	0	0	3
4	25PEL300PE604	HVDC Transmission	3	0	0	3
Open Electives						
S. No.	Course Code	Course	Hours / Week			
			L	T	P/D	C
1	25PEL300OE601	Energy Systems and Management	3	0	0	3
2	25PEL300OE602	Renewable Energy Technologies	3	0	0	3
3	25CAI300OE603	Cyber Laws	3	0	0	3
4	25CAI300OE604	Block Chain Technology	3	0	0	3
5	25AMS300OE605	Operations Research	3	0	0	3
6	25AMS300OE606	3D Printing	3	0	0	3
7	25ECE300OE607	Internet of Things and IIoT	3	0	0	3
8	25ECE300OE608	Computer vision	3	0	0	3
9	25CTM300OE609	Disaster Management	3	0	0	3
10	25CTM300OE610	Smart Cities	3	0	0	3