SPECIALIZATION IN POWER ELECTRONICS & DRIVES

Sl. No.	Subject Code	Subject				Total	Credit
		Theory	L	Т	Р		
1	EX60001	University Level Subject Core (Research Methods and Documentation)	3	0	0	3	3
2	EE60109	School Level Common Mathematics Course((Numerical Optimization Techniques)	3	0	0	3	3
3	EE61101	Power Conversion Techniques	3	1	0	4	4
4	EE60101	Electrical Drives and Control	3	0	0	3	3
5	EE60103	Control Techniques in Power Electronics	3	0	0	3	3
6		Dept. Elective-I	3	0	0	3	3
Total Th	leory					19	19
	Practical						
1	EE69101	Power Electronics Converter and Drives Lab	0	0	2	2	1
2	EE69103	Power Electronics Modeling and Control	0	0	2	2	1
		Laboratory					
Total P	ractical				4	4	2
		Total Semester Credit				23	21

1st Semester

2nd Semester

Sl. No.	Subject Code	Subject				Total	
							Credit
		Theory	L	Т	Р		
1	EE60110	School Level Common Core Course(Control	3	0	0	3	3
		Theory And Design)					
2	EE60102	Design of Switch Mode Power Converters	3	0	0	3	3
3	EE60104	Vector Control of Electric Drives	3	0	0	3	3
4		Dept. Elective-II	3	0	0	3	3
5		Dept. Elective-III	3	0	0	3	3
		Total Theory				15	15
	Practical						
1	EE69102	Industrial Automation Laboratory	0	0	2	2	1
		Total Practical				2	1
	Sessional						
1	EE68102	Modeling, Analysis and Design of Electrical	0	0	2	2	1
		System					
2	EE68104	Comprehensive Viva-Voce	0	0	0		2
		Total Sessional				2	3
		Total Semester Credit				19	19

3rd Semester

			L	Т	Р	Credit
1		Open Elective/Industry Elective	3	0	0	3
2	EE68101	Seminar	0	0	2	1
3	EE67101	Thesis Part-I				16
		Total Semester Credit				20

4th Semester

1 EE67102 Thesis Part-II - 20

Electives for Specialization in POWER ELECTRONICS & DRIVES

Elective-I

Subject Code	Subject	Credit
EE60201	Renewable Power Generation Technology	3
EE60111	Flexible AC Transmission System	3
EE60113	Power Electronics for Utility Interface	3
EE60115	Discrete and Digital Signal Processing	3

Elective-II

Subject Code	Subject	Credit
EE60112	Analysis and Design of Power Converter	3
EE60302	Computer Analysis in Power System	3
EE60202	Power Quality Issues and Mitigation	3
EE60114	Intelligent Techniques	3

Elective-III

Subject Code	Subject	Credit
EE60116	Electric Vehicle Technology	3
EE60320	Harmonics Elimination Techniques in Electrical System	3
EE60204	Energy Management and Audit	3
EE60120	Advanced DC-AC Conversion System	3