M.Tech. in ECE (Power and Control)

Course Structure

Semester I					
S.No.	Course No.	Course Title	Credits		
1.	HS501	Professional and Communication Skills (compulsory)	1-0-2-2		
2.	EC521	Special topics in Power and Control Systems (core1)	3-0-0-4		
3.	EC522	Power Electronics and Drives (core2)	3-0-0-4		
4.	MT612	PLC and Microcontroller (Core3)	2-0-4-5		
5.		Elective 1	3-0-0-4		
6.	MT612L	Lab is attached to course Core3			
Semester II					
1.	EC523	System Design: Power and Control (core4)	3-0-2-5		
2.		Elective 2	3-0-0-4		
3.		Elective 3	3-0-0-4		
4.	EC699a	Thesis/Elective 4	3-0-0-4		
5.	EC523L	Lab is attached to course core4			
Semester III					
1.	EC598a	Graduate Seminar I	2		
2.	EC699a	M.Tech. Dissertation	16		
Semester IV					
1.	EC599b	Graduate Seminar II	2		
2.	EC699b	M.Tech. Dissertation	16		

Electives:

Sl No	Course No	Courses	Credits
1.	EC524	Optimal Control	3-0-0-4
2.	ES306	Optimization Techniques	3-0-0-4
3.	EC526	Intelligent Systems and Control	3-0-0-4
4.	EC525	Control Techniques In Power Electronics	3-0-0-4
5.	EC602	Application of Signal and Image processing	3-0-0-4
6.	EC603	Power Electronics Applications In Power Systems	3-0-0-4
7.	EC604	Simulation of Modern Power Systems	3-0-2-5
8.	EC511	Advanced Digital Signal Processing	3-0-0-4
9.	EC527	Robust Control Systems	3-0-0-4
10.	EC529	Modelling and Simulation of Power Electronic Systems	3-0-0-4
11.	EM661	Fuzzy logic and its application	2-0-0-2
12.	EM528	Simulation of Power Systems	2-0-1-2