

# COURSE OF STUDY AND SCHEME OF EXAMINATION

## M. Tech. in Electrical Drives

### I SEMESTER (PART- TIME)

Course No.	Subject	Scheme of Studies periods Per week			No. of Duration of Theory Paper		Credits			Total Credits
		L	T	P	No.	Hrs.	L	T	P	
MTH-504	Advanced Mathematics	3	1	-	1	3	3	1	-	4.0
ED-501	Power Controller	3	1	-	1	3	3	1	-	4.0
ED-502	Electrical Drives I	3	1	-	1	3	3	1	-	4.0
Total		9	3	-	-	-	9	3	-	12

### II SEMESTER (PART- TIME)

ED-551	Microcomputer Controlled Drives	3	1	-	1	3	3	1	-	4.0
ED-552	Advanced Control System	3	1	-	1	3	3	1	-	4.0
ED-591	Laboratory II (PLC & Micro controller Lab)			3	-	-	-	-	3	3.0
ED-592	Seminar			2					2	2
Total		6	2	5	-	-	6	2.0	5	13

### III SEMESTER (PART- TIME)

ED-503	Modeling & Analysis of Elect. M/cs	3	1	-	1	3	3	1	-	4.0
ED-511-512	Elective-I	3	1	-	1	3	3	1	-	4.0
ED-541	Laboratory – I (Machines & Drives Lab.)	-	-	3	-	-	-	-	3	3.0
ED-542	Seminar			2					2	2
Total		6	2	5	-	-	6	2.0	5	13

### IV SEMESTER (PART- TIME)

ED-553	Instrumentation in Elect. Drives.	3	1	-	1	3	3	1	-	4.0
ED-554	Traction Drives	3	1	-	1	3	3	1	-	4.0
ED-561-562	Elective – II	3	1	-	1	3	3	1	-	4.0
Total		9	3	-	-	-	9	3	-	12

### V SEMESTER (PART- TIME)

ED-601	Electrical Drives II	3	1	-	1	3	3	1	-	4.0
ED-602	Power Quality	3	1	-	1	3	3	1	-	4.0
ED-611-613	Elective – III	3	1	-	1	3	3	1	-	4.0
ED-648	Project Phase I	-	-	-	-	-	-	-	13	13
Total		9	3	-	-	-	9	3	13	25

### VI SEMESTER (PART- TIME)

ED-698	Project Phase II	-	-	-	-	-	-	-	25	25
Total		-	-	-	-	-	-	-	25	25

#### Elective – I

ED-511 Microcomputer & its Application  
ED-512 DSP & its application

#### Elective –III

ED-611 Reactive Power Control And Facts  
ED-613 Special Machines

#### Elective – II

ED-561 Advanced Power Electronics  
ED-562 Evolutionary Techniques

ED-612 EHV AC & DC