

**COURSE OF STUDY AND SCHEME OF EXAMINATION**  
**M. Tech. in Electrical Drives**

**I SEMESTER (FULL- 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
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
ED-542	Seminar			2					2	2
	Total	15	5	5	-	-	15	5	5	25

**II SEMESTER (FULL- 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-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
ED-591	Laboratory II (PLC & Micro controller Lab)	-	-	3	-	-	-	-	3	3
ED-592	Seminar			2					2	2
	Total	15	5	5	-	-	15	5	5	25

**III SEMESTER (FULL- 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	13.0
	Total	9	3	-	-		9	3	13	25

**IV SEMESTER (FULL- TIME)**

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

**Elective – I**

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

**Elective – II**

ED-561 Advanced Power Electronics  
ED-562 Evolutionary Techniques

**Elective –III**

ED-611 Reactive Power Control and FACTS  
ED-612 Special Machines

ED-613 EHV AC & DC