Master of Electrical Engineering

FIRST SEMESTER

Theoretical Courses	Subjects		Periods/Weeks		Marks		Credit Points
Departmental / Specialization Basket	Subject Code	Specialization Subject Names Control System (CS) Electrical Machines (MC) Electrical Measurements & Instrumentation (MS) High Voltage (HV) Power System (PS)	Lecture	Sessional	Examination	Sessional	
Paper-I	PG / EE / T / 111A	Field Computation of Electromagnetic Devices (MC)	3		100		3
	PG / EE / T / 111B	Modeling & Simulation of Dynamic Systems (CS)					
	PG / EE / T / 111C	Advanced Instrumentation Techniques (MS)					
Paper-II	PG / EE / T/ 112A	Special Purpose Electrical Machines (MC)	3		100		3
	PG / EE / T/ 112B PG / EE / T/ 112C	Control System Engineering (CS) Advanced Power System Principles (PS)	_				
	PG / EE / T/ 112D	Lighting Design & Calculation					
Paper-III	PG / EE / T/ 113A	Static Converters in Electric Drives (MC)	3		100		3
	PG / EE / T/ 113B	Digital Control Theory (CS)					
	PG / EE / T/ 113C	Elements of High Voltage Engineering (HV)					

Note: The students have to select 3 subjects from the departmental/ specialization basket, i.e. one subject each from the list given in the baskets of Paper-II and Paper-III

Inter- Disciplinary Basket	Subject Code	Subject Name	Lecture	Sessional	Examination	Sessional	
Paper-IV	PG / EE / T/ 114A	Materials Technology	3		100		3
Paper-V	PG / EE / T/ 115A	Active Circuits and Systems	3		100		3
Paper-VI	PG / EE / T / 116A	Optimization Techniques	3		100		3
	PG / EE / T / 116B	Solid State Power Supplies	1				

Note: The students have to select 3 subjects from the inter-departmental basket, i.e. one subject each from the list given in the baskets of Paper-IV, Paper-V and Paper-VI

Sessional Courses							
Sessional 1	PG / EE / S / 111	Laboratory		4		100	3
Sessional 2	PG / EE / S / 112	Seminar		3		200 marks to be included in 2 nd semester	
		•	18	7	600	100	21

Total Periods/Week = 25

Total Marks = 700

Theoretical Courses	Subjects		Periods/Weeks		Marks		Credit Points
Departmental / Specialization Basket	Subject Code	Specialization Subject Names Control System (CS) Electrical Machines (MC) Electrical Measurements & Instrumentation (MS) High Voltage (HV) Power System (PS)	Lecture	Sessional	Examination	Sessional	
Paper-VII	PG / EE / T/ 127A PG / EE / T/ 127B PG / EE / T/ 127C PG / EE / T/ 127D PG / EE / T/ 127E PG / EE / T/ 127F	Modeling and Analysis of Electrical Machines and Drives (MC)Transducer Technology (MS)Power System Analysis (PS)High Voltage Fields (HV)Optimal and Robust Control (CS)Computer Control for Industrial Processes (CS)	3		100		3
Paper-VIII	PG / EE / T/ 128A PG / EE / T/ 128B PG / EE / T/ 128C PG / EE / T/ 128D PG / EE / T/ 128E PG / EE / T/ 128F PG / EE / T/ 128F	Small Machines, Incremental Motion devices and Actuators (MC)Computer Application in Instrumentation (MS)Power System Operation (PS)Dielectric Engineering (HV)Real-Time Systems (CS) Non-linear and Adaptive Control (CS)High Voltage Equipment (HV)	3		100		3
Paper-IX	PG / EE / T/ 129A PG / EE / T/ 129B PG / EE / T/ 129C PG / EE / T/ 129D PG / EE / T/ 129E PG / EE / T/ 129F	Advanced Electric Drives (MC)Embedded Systems (MS)Power System Protection (PS)High Voltage Measurements (HV)Mechatronics (CS)Advanced Topics in Electrical Machine Design (MC)	3		100		3

SECOND SEMESTER

Note: The students have to select 3 subjects from the departmental/ specialization basket, i.e. one subject each from the list given in the baskets of Paper-VII, Paper-VIII and Paper-IX

Inter- Disciplinary Basket	Subject Code	Subject Name	Lecture	Sessional	Examination	Sessional	
Paper-X	PG / EE / T/ 1210A	Electrical Systems in Vehicular Applications	3		100		3
	PG / EE / T/ 1210B	Advanced Digital Signal Processing					
	PG / EE / T/ 1210C	Power Electronics Application in EHV Transmission					
	PG / EE / T/ 1210D	Condition Monitoring of High Voltage Equipment					
Note: The s	tudents have the fre	edom to choose one subject from	the list ur	ider Paper-	X.		
Sessional Courses							
Sessional 1	PG / EE / S / 121	Term Paper Leading to Thesis		3		100	3
Sessional 2	PG / EE / S / 122	Seminar		3		200	6
			12	6	400	300	21

Total Periods/Week = 18 Total Marks = 700

THIRD and FOURTH SEMESTER

Courses					
1	PG / EE / TH / 21	Thesis Work	16	300	12
2	PG / EE / VV/ 22	Viva-Voce on Thesis		100	
			16	400	12

Total Periods/Week = 16 Total Marks = 400