Master in Control System Engineering

FIRST SEMESTER

Theoretical Courses	Subjects		Periods/Weeks		Marks		Credit Points
Departmental / Specialization Basket	Subject Code	Subject Name	Lecture	Sessional	Examination	Sessional	
Paper-I	PG / CNSE / T / 111A	Modeling & Simulation of Dynamic Systems	3		100		3
Paper-II	PG / CNSE / T/ 112A	Control System Engineering	3		100		3
Paper-III	PG / CNSE / T/ 113A	Digital Control Theory	3		100		3

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-I, Paper-II and Paper-III

Inter-Disciplinary Basket	Subject Code	Subject Name	Lecture	Sessional	Examination	Sessional	
Paper-IV		From the ETCE interdisciplinary basket	3		100		3
Paper-V	PG / CNSE / T/ 115A	Rockets and Missiles	3		100		3
Paper-VI		From the MME interdisciplinary basket	3		100		3

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

Total Periods/Week = 25   Total Marks = 700

SECOND SEMESTER

Theoretical Courses	Subjects		Periods/Weeks		Marks		Credit Points
Departmental / Specialization Basket	Subject Code	Subject Name	Lecture	Sessional	Examination	Sessional	
Paper-VII	PG / CNSE / T/ 127A	Computer Control for Industrial Processes	3		100		3
	PG / CNSE / T/ 127B	Optimal and Robust Control					
Paper-VIII	PG / CNSE / T/ 128A	Non-linear and Adaptive Control	3		100		3
	PG / CNSE / T/ 128B	Real-Time Systems					
Paper-IX	PG / CNSE / T/ 129A	Control and Guidance	3		100		3

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		From the common interdisciplinary basket	3		100		3

Note: The students have the freedom to choose one subject from the list under Paper-X.

Sessional Courses							
Sessional 1	PG / CNSE / S / 121	Term Paper Leading to Thesis		3		100	3
Sessional 2	PG / CNSE / 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 / CNSE / TH / 21	Thesis Work		16		300	12
2	PG / CNSE / VV/ 22	Viva-Voce on Thesis				100	
				16		400	12

Total Periods/Week = 16   Total Marks = 400