

Master of Production Engineering

FIRST SEMESTER

Theoretical Courses	Subjects		Periods/Weeks		Marks		Credit Points
	Subject Code	Specialization Subject Name Production Technology (PT) Production Management (PM)	Lecture	Sessional	Examination	Sessional	
Departmental / Specialization Basket							
Paper-I	PG / Prod E/ T/ 111A	Industrial Ergonomics (PT)	3		100		3
	PG / Prod E/ T/ 111B	Theory of Optimization (PM)					
Paper-II	PG / Prod E / T/ 112A	Robotics (PT)	3		100		3
	PG / Prod E / T/ 112B	Production & Inventory Control System (PM)					
Paper-III	PG / Prod E / T/ 113A	Automation of Production Systems (PT)	3		100		3
	PG / Prod E / T/ 113B	Quantitative Methods & Decision Theories in Management (PM)					
<p>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</p>							
Inter-Disciplinary Basket	Subject Code	Subject Name	Lecture	Sessional	Examination	Sessional	
Paper-IV	PG / Prod E / T/ 114A	Computer Integrated Manufacturing (CIM) (PT / PM)	3		100		3
Paper-V	PG / Prod E / T/ 115A	CNC Machines, DNC and Adaptive Control (PT)	3		100		3
	PG / Prod E / T/ 115B	Simulation Theory and Applications (PM)					
Paper-VI	PG / Prod E / T/ 116A	Advances in Manufacturing Systems (PT)	3		100		3
	PG / Prod E / T/ 116B	Productivity and Quality Management (PM)					
<p>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</p>							
Sessional Courses							
Sessional 1	PG / Prod E/ S/ 111	Laboratory		4		100	3
Sessional 2	PG / Prod E/ 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

SECOND SEMESTER

Theoretical Courses	Subjects		Periods/Weeks		Marks		Credit Points
	Subject Code	Specialization Subject Name	Lecture	Sessional	Examination	Sessional	
Departmental / Specialization Basket		Production Technology (PT) Production Management (PM)					
Paper-VII	PG / Prod E / T/ 127A	Nano-technology and micro machining (PT)	3		100		3
	PG / Prod E / T/ 127B	Advanced topics of operation research (PM)					
Paper-VIII	PG / Prod E / T/ 128A	Intelligent manufacturing systems (PT)	3		100		3
	PG / Prod E / T/ 128B	Management and control of projects (PM)					
Paper-IX	PG / Prod E / T/ 129A	Advanced material forming, tool and Tie design (PT)	3		100		3
	PG / Prod E / T/ 129B	Advanced manufacturing planning and control (PM)					

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 / Prod E/ T/ 1210A	Concurrent Engineering (PT)	3		100		3
	PG / Prod E/ T/ 1210B	Maintenance engineering and Terotechnology (PM)					

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

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

Total Periods/Week = 16

Total Marks = 400