Course Structure for Two year Postgraduate Degree Course (M.Tech.) in Manufacturing Science & Engineering with specialization in Manufacturing Systems Engineering

SEMESTER-I				
Theory				
Manufacturing Systems & Automation	3	1	0	4
Computer Aided Design and Manufacturing	3	1	0	4
Modeling and Analysis of Manufacturing Systems	3	1	0	4
Elective-I	3	1	0	4
Elective-II	3	1	0	4
Licetive-ii	3	1	U	7
<u>Sessional</u>				
Manufacturing Systems LabI	0	0	6	4
Seminar-I	0	0	3	2
Comprehensive Viva Voce-I	0	0	3	2
Total credits	15	5	12	28
SEMESTER-II				
Theory				
Laser Processing of Materials	3	1	0	4
	3	1	0	4
Discrete System Simulation				
Robotics and Robot Applications	3	1	0	4
Elective III	3	1	0	4
Elective IV	3	1	0	4
Sessional				
Manufacturing Systems LabII	0	0	6	4
Seminar II	0	0	3	2
Comprehensive Viva Voce-II	0	0	3	2
Total credits	15	5	12	28
SEMESTER-III				
Dissertation Interim Evaluation	_	_	_	10
Comprehensive Viva Voce on dissertation	_	_	_	3
Seminar on dissertation	_	_	_	2
Seminar on dissertation				
Total credits	-	-	-	15
SEMESTER-IV				
	_	_	_	20
Dissertation evaluation				_0
	_	_	_	5
Dissertation evaluation Dissertation open defense	-	-	-	5

Grand Total - 96 Credits

Elective Subjects

Group-I (Elective-I & Elective-II)

- 1. Computer Aided Product Design
- 2. Rapid Prototyping
- 3. Design of Hydraulic and Pneumatic Systems
- 4. Finite Element Analysis in Manufacturing
- 5. Total Quality Systems & Engineering
- 6. Micro-Electro-Mechanical Systems

Group-II (Elective-III & Elective-IV)

- 1. Diagnostic Techniques
- 2. Manufacturing Information Systems
- 3. Mechatronics
- 4. Computer Integrated Manufacturing
- 5. Concurrent Engineering
- 6. Image Processing in Manufacturing