

M. Tech. in Manufacturing Engineering - I Semester				
S. No.	Subject Code	Name of Subject	L-T-P	Credits
	Theory Subjects			
1	MEE 501	Optimization Techniques	3-1-0	4
2	MEM 507	Industrial Automation and Robotics	3-0-0	3
3	MEM 509	Simulation, Modeling and Analysis	3-1-0	4
4		(Elective I)	3-0-0	3
5		(Elective II)	3-0-0	3
	Practical Labs			
6	MEM 519	Advanced Manufacturing Lab I	0-0-3	2
7	MEM 521	Seminar	0-0-3	2
8	GP 501	General Proficiency		1
		Total	15-2-6	22
		Total Contact Hours		

M. Tech. in Manufacturing Engineering - II Semester				
S. No.	Subject Code	Name of Subject	L-T-P	Credits
	Theory Subjects			
1	MEM 502	Industrial Tribology	3-1-0	4
2	MEM 504	Metal Cutting and Tool Design	3-1-0	4
3	MEM 506	Micromachining and Nanofinishing	3-0-0	3
4		(Elective III)	3-0-0	3
5		(Elective IV)	3-0-0	3
	Practical Labs			
6	MEM 526	Project	0-0-8	4
7	MEM 528	Advanced Manufacturing Lab II	0-0-3	2
8	GP 502	General Proficiency		1
		Total	15-2-11	24
		Total Contact Hours		

M. Tech. in Manufacturing Engineering - III Semester				
S. No.	Subject Code	Name of Subject	L-T-P	Credits
	Theory Subjects			
1	MEM 601	Quality Engineering in Manufacturing	3-0-0	3
2	MEM 603	Press Tool Design	3-0-0	3
3		(Elective V)	3-0-0	3
	Practical Labs			
4	MEM 613	Dissertation (Preliminary)	2*-0-24	12
5	GP 601	General Proficiency		1
		Total	11-0-24	22
		Total Contact Hours		

*Direct contact load of faculty concern will be 1 hour per student per week subjected to maximum of 2 hours per week.

M. Tech. in Manufacturing Engineering - IV Semester				
S. No.	Subject Code	Name of Subject	L-T-P	Credits
	Theory Subjects			
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	Practical Labs			
1	MEM 614	Dissertation	0-0-42	21
2	GP 602	General Proficiency		1
		Total		22
		Total Contact Hours		

List of Electives for M. Tech. Manufacturing Engineering

Elective -I				
S. No.	Subject Code	Name of Subject	L-T-P	Credits
1	MEM 511	Welding Engineering	3-0-0	3
2	MEM 513	Thermo-fabrication Processes	3-0-0	3
3	MEM 515	Precision Engineering	3-0-0	3
4	MEM 517	Surface Engineering	3-0-0	3
Elective –II				
1	MEM 523	Modeling of Metal Forming Processes	3-0-0	3
2	MEM 525	Plastic Technology	3-0-0	3
3	MEM 527	Computer Aided Inspection	3-0-0	3
4	MEM 529	Design of Manufacturing Systems	3-0-0	3
Elective –III				
1	MEM 510	Design and Metallurgy of Welded Joints	3-0-0	3
2	MEM 512	Flexible and Computer Integrated Manufacturing	3-0-0	3
3	MEM 516	Machine Tool Design	3-0-0	3
4	MED 506	Mechatronics System Design	3-0-0	3
Elective –IV				
1	MEM 518	Mechanics of Sheet Metal Forming	3-0-0	3
2	MEM 522	Machining of Hard Materials	3-0-0	3
3	MEM 524	Design for Manufacturing and Assembly	3-0-0	3
4	MED 522	Composite Materials and Analysis	3-0-0	3
Elective –V				
1	MEM 605	Rapid Prototyping and Manufacturing	3-0-0	3
2	MEM 607	Product Design and Development	3-0-0	3
3	MEM 609	Product Lifecycle Management	3-0-0	3
4	MEM 611	Manufacturing Systems Management	3-0-0	3