M. Tech. in Manufacturing Engineering (Two Years)

M. Tech. in Manufacturing Engineering - I Semester							
S.	Course Name of Course L-T-P				Course		
No.	Code				Туре		
1	MA 406 / MA 402/ MA 507	Operation Research / Modeling and Simulation/ Optimization Techniques	3-1-0	4	GE [.]		
2	ME 531	Industrial Automation and Robotics	3-1-0	4	CC-C57		
3	ME 503	Mechatronics System Design	3-1-0	4	CC-C58		
4		(Elective I)	3-0-0	3	DSE1		
5		(Elective II)	3-0-0	3	DSE2		
6.		Open Elective I (Only 2 Years M. Tech.)	3-0-0	3	OE1		
7	ME 549	Advanced Manufacturing Lab I	0-0-3	2	CC-C59		
8	ME 500	Seminar	0-0-3	2	SEC		
9	GP General Proficiency			NC			
		Total	18-3-6	25			
		Total Contact Hours					

Open Elective: Courses from other schools

	NA Table								
	M. Tech. in Manufacturing Engineering - II Semester S. Course Name of Course L-T-P Credits Course								
S.	Course	Name of Course	Credits	Course					
No.	Code				Туре				
		Theory Courses							
1	ME 502	Industrial Tribology	3-1-0	4	CC-C51				
2	ME 532	Metal Cutting and Tool Design	3-1-0	4	CC-C52				
3	ME 534	Micromachining and Nanofinishing	3-0-0	3	CC-C53				
		(Elective III)	3-0-0	3	DSE4				
5		(Elective IV)	3-0-0	3	DSE5				
		Practical Labs							
6	ME 522	Project	0-0-10	5	DP1				
7	ME 548	Advanced Manufacturing Lab II	0-0-3	2	CC-C54				
8	GP	General Proficiency		NC					
		Total	15-2-13	24					
		Total Contact Hours							

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	M. Tech. in Manufacturing Engineering - III Semester								
S. No.	Course Code	Course Name of Course L-T-P							
			Туре						
1	ME 631	Quality Engineering in Manufacturing	3-1-0	4	CC-C55				
2	ME 633	CNC Machines and Programming	3-1-0	4	CC-C56				
3		(Elective V)	3-0-0	3	DSE6				
		Practical Labs							
4	ME 613	Dissertation Part I	2*-0-24	8	DP2				
5	GP .	General Proficiency	•	NC					
		Total	11-0-24	19					
		Total Contact Hours							

	M. Tech.	in Manufacturing Engineer	ing - IV Se	mester	
S. No.	Course Code	Name of Subject	Credits	Course Type	
,					
					-
		Practical Labs	1		
1	ME 614	Dissertation Part II	0-0-44	22	DP3
2	GP	General Proficiency	·	NC	
		Total		22	
		Total Contact Hours			

M. Tech. in Manufacturing Engineering (Two Years)

Type of Courses			Core Courses		Elective Courses			Open Elective	Total
Sem	AECC	SEC	FC	CC	E- DSE	E- D/P	E- GE	OE	
I				12	6		4	3	25
II				13	6	5			24
III				8	3	8			19
IV						22			22
Total				33	15	35	4	3	90

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List of Electives for M. Tech. Manufacturing Engineering

S. No.	Course Code	Name of Course	L-T-P	Credits			
Elective -I - DSE 1							
1	ME 533	Welding Engineering	3-0-0	. 3			
2	ME 535	Thermo-fabrication Processes	3-0-0	3			
3	ME 537	Precision Engineering	3-0-0	3			
4	ME 539	Surface Engineering	3-0-0	3			
		Elective -II- DSE 2					
1	ME 541	Modeling of Metal Forming Processes	3-0-0	3			
2	ME543	Plastic Technology	3-0-0	3			
. 3	ME 545	Computer Aided Inspection	3-0-0	3			
4	ME 547	Design of Manufacturing Systems	3-0-0	3			
Elective -III- DSE 3							
1	ME 536	Design and Metallurgy of Welded Joints	3-0-0	3			
2	ME 538	Flexible and Computer Integrated	3-0-0	. 3			
		Manufacturing					
3	ME 510	Machine Tool Design	3-0-0	3			
	Elective -IV - DSE 4						
1	ME 540	Mechanics of Sheet Metal Forming	3-0-0	3			
2	ME 542	Machining of Hard Materials	3-0-0	3			
3	ME 544	Design for Manufacturing and Assembly	3-0-0	3			
4.	ME 520	Composite Materials and Analysis	3-0-0	3			
	Elective -V - DSE 5						
1	ME 605	Rapid Prototyping and Manufacturing	3-0-0	3			
2	ME 635	Product Design and Development	3-0-0	3 .			
3	ME 637	Product Lifecycle Management	3-0-0	. 3			
4.	ME 639	Manufacturing Systems Management	3-0-0	3			

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