	М	Tech. in Design Engineering - I Semeste	er	
S. No.	Subject Code	Name of Subject	L-T-P	Credits
		Theory Subjects		
1	MEE 501	Optimization Techniques	3-1-0	4
2	MEE 503	Finite Element Methods and Analysis	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	MED 519	Finite Element Methods and Analysis Lab	0-0-3	2
7	MED 521	Seminar	0-0-3	2
8	GP 501	General Proficiency		1
		Total	15-2-6	22
		Total Contact Hours		

M. Tech. in Design 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	MED 502	Experimental Stress Analysis	3-0-0	3	
3	MEE 504	Design of Experiments	3-1-0	4	
4		(Elective III)	3-0-0	3	
5		(Elective IV)	3-0-0	3	
		Practical Labs			
6	MED 526	Project	0-0-8	4	
7	MED 528	Advanced Design Lab	0-0-3	2	
8	GP 502	General Proficiency		1	
		Total	15-2-7	24	
		Total Contact Hours			

M. Tech. in Design Engineering - III Semester					
S. No.	Subject Code	Name of Subject	L-T-P	Credits	
		Theory Subjects	•		
1	MED 601	Analysis and Synthesis of Mechanisms	3-0-0	3	
2	MED 603	Reliability in Engineering Design	3-0-0	3	
3		(Elective V)	3-0-0	3	
		Practical Labs			
4	MED 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.

	М. Т	ech. in Design Engineering - IV Sem	nester	
S. No.	Subject Code	Name of Subject	L-T-P	Credits
		Theory Subjects	-	
		Practical Labs		
1	MED 614	Dissertation	0-0-42	21
2	GP 602	General Proficiency		1
		Total		22
		Total Contact Hours		

List of Electives for M. Tech. Design Engineering

		Elective -I				
S. No.	Subject Code	Name of Subject	L-T-P	Credits		
1	MED 501	Advanced Mechanical Design	3-0-0	3		
2	MED 503	Advanced Mechanics of Solids	3-0-0	3		
3	MED 505	Design of Pressure Vessels and Piping	3-0-0	3		
4	MED 507	Bearings and Rotor-dynamics	3-0-0	3		
	1	Elective -II				
1	MED 509	Mechanical Behavior of Materials	3-0-0	3		
2	MED 511	Design of Hydraulic and Pneumatic Systems	3-0-0	3		
3	MED 513	Design of Automotive Components	3-0-0	3		
4	MED 515	Design of Material Handling Equipments	3-0-0	3		
	1	Elective -III				
1	MED 504	Vibration Engineering	3-0-0	3		
2	MED 506	Mechatronics System Design	3-0-0	3		
3	MEM 516	Machine Tool Design	3-0-0	3		
4	MET 516	Environmental Engineering and Pollution Control	3-0-0	3		
		Elective -IV				
1	MED 510	Engineering Fracture Mechanics	3-0-0	3		
2	MED 512	Theory of Elasticity	3-0-0	3		
3	MED 514	Theory of Plates and Shells	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	MED 605	Vehicle Dynamics	3-0-0	3		
3	MED 607	Robotic Engineering	3-0-0	3		
4	MED 609	Design of Process Equipments	3-0-0	3		