

School of Mechanical Engineering

Program Structure of M. Tech. Two Year Full Time Degree

(Entry Batch 2019 Onwards)

APPROVED COURSE STRUCTURE

First Semester							
S. No	Course Type	Course code	Course Title	L	T	P	Credit
	Core -I	MEL6020	Finite Element Analysis	3	0	0	3
	Core-II	MEL 6231	Advanced Fluid Mechanics	3	0	0	3
	Program Elective-I	MEE6134	1. Advanced Heat and Mass Transfer	3	0	0	3
		MEL6027	2. Product Design and Development				
		MEE 6028	3. Additive Manufacturing				
	Program Elective-II	MEE6042	1. Heating Ventilation and Air conditioning	3	0	0	3
		MEE6140	2. Experimental Stress Analysis				
		MEE 6032	3. Industrial Automation				
	Core	MEP6020	Finite Element Analysis Lab	0	0	4	2
	Core	MEP6231	Advanced Fluid Mechanics Lab	0	0	4	2
	Core	MEL6039	Research Methodology	3	1	0	4
	Audit		Course-I	2	0	0	0
Total Credit							20

Second Semester							
S. No	Course Type	Course code	Course Title	L	T	P	Credit
1	Core-III	MEL7030	Simulation, Modeling & Analysis	3	0	0	3
	Core-IV	MEL6134	Advanced Manufacturing Processes	3	0	0	3
	Program Elective-III	MEE3122	1.Computer Integrated Manufacturing Systems	3	0	0	3
		MEE3123	2. Theory of Elasticity				
		MEE3124	3.Advanced Thermodynamics and Power cycles				
	Program Elective-IV	MEE6132	1. Mechanical Behaviour of Materials	3	0	0	3
		MEE6133	2. Renewable Energy System				
		MEE6135	3. Work design & Ergonomics				
	Core	MEP7030	Simulation, Modeling & Analysis Lab	0	0	4	2

	Core	MEP6134	Advanced Manufacturing Processes Lab	0	0	4	2
	Audit-2		Course-II	2	0	0	0
	Core	MED6912	Mini Project & Seminar	0	0	4	2
Total Credit							18

Third Semester							
S. No		Course code	Course Title	L	T	P	Credit
	Program Elective-IV	MEL7032	1. Industrial Tribology	3	0	0	3
		MEL7033	2. Computational Fluid Dynamics				
		MEL7034	3. Robotics				
	Open Elective	PCL 7067	Discourse of Human Virtues	3	0	0	3
	Dissertation	MED7911	Dissertation Phase-I	0	0	20	10
Total Credit							16

Fourth Semester						
S. No	Course code	Course Title	L	T	P	Credit
	MED 7912	DissertationPhase-II	0	0	32	16
Total Credit						16

Total Credit: 70

Audit Course 1 & 2:-

1. English for Research Paper Writing
2. Disaster Management
3. Sanskrit for Technical Knowledge
4. Value Education
5. Constitution of India
6. Pedagogy Studies
7. Stress Management by yoga
8. Personality Development Through Life Enlightenment Skill