

Semester-wise structure of curriculum

M. Tech Mechanical Engineering (Semester-I)

Course Code	Name of the Course	Teaching Scheme			Examination Scheme					Credits
		L	T	P	Theory		CA	PR/ OR	Total	
					ESE	MSE				
MTFTE 101	Thermal Engineering	3	1	--	60	20	20	--	100	4
MTFAM 102	Advanced Forming Processes	3	1	--	60	20	20	--	100	4
MTFMD 103	Machine Dynamics	3	1	--	60	20	20	--	100	4
MTFE1SE 104 MTFE1IC 104	Elective I: Applications of Solar Energy	3	--	--	60	20	20	--	100	3
	Advances in Additive Manufacturing									
MTFE1RP 104	Robotics									
MTFE2PP 105 MTFE2HP 105 MTFE2FE 105	Elective II: Advance and Applied Production Planning and Control	3	--	--	60	20	20	--	100	3
	Advanced Fluid Mechanics and Heat Transfer									
	Finite Element Method									
MTFCS 106L	Communication Skills Lab	--	--	2	--	--	25	25	50	1
MTFME 107L	Mechanical Engineering Lab	--	--	2	--	--	25	25	50	1
Total		15	3	4	300	100	150	50	600	20

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M. Tech Mechanical Engineering (Semester-II)

Course Code	Name of the Course	Teaching Scheme			Examination Scheme					Credits
					Theory		CA	PR/OR	Total	
		L	T	P	ESE	MSE				
MTFE4SC 204	Supply Chain Management	3	---	--	60	20	20	--	100	3
MTFMD 202	Advanced Optimization Techniques	3	---	--	60	20	20	--	100	3
MTFE5DE 205	Techniques of Design of Experiments	3	---	--	60	20	20	--	100	3
MTFE3CC 203	Elective III Advanced CAD/CAM/CAE	3	--	--	60	20	20	--	100	3
MTFE3CF 203	Applied Computational Fluid Dynamics									
MTFE5OT 205	Research Methodology									
MTFE4SE 204	Elective IV: Surface Engineering	3	--	--	60	20	20	--	100	3
MTFE4CE 204	Cryogenic Engineering									
MTFE4NT 204	Nanotechnology									
MTFSE 206L	Seminar	--	--	4	--	--	50	50	100	2
MTFMP 207L	Mini Project	--	--	6	--	--	50	50	100	3
Total		15	---	10	240	100	200	100	700	20

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M. Tech Mechanical Engineering (Semester-III)

Course Code	Name of the Course	Teaching Scheme			Evaluation Scheme				Credits	
		L	T	P	Theory		CA	PR/ OR		Total
					TH	Test				
MTSPS 301L	Project Stage -I	---	--	4	--	--	100	100	200	18
MTSPM 401L	Project Management (Self Study Course) OR Intellectual Property Rights (Self Study Course)	--	--	--	--	--	50	50	100	2
MTSIP 401L		--	--	--	--	--	50	50	100	2
Total		---	--	4	--	--	150	150	300	20

M. Tech Mechanical Engineering (Semester-IV)

Course Code	Name of the Course	Hours/Week			Examination Scheme				Credits	
		L	T	P	Theory		CA	PR/ OR		Total
					TH	Test				
MTSPS 402L	Project Stage -II	---	--	4	--	--	100	100	200	20
Total		---	--	4	--	--	100	100	200	20