

Elective Grouping

YES: CAN OPT; NO: CANNOT OPT CORE: COMPULSORY												
Group	Course code	Course title	L-T-P-C	Open for						Instructor	Class Slot	Exam Slot
				B.Tech.	MD	FT	MSE	CM	AP			
G-1	ME 543	Computational Fluid Dynamics	3-0-0-6	NO	NO	YES	NO	CORE	YES	AMD	C	C
	ME 608	Computer Aided Design-Computer Aided Manufacturing	2-0-2-6	YES	YES	NO	YES	NO	NO	SNJ	C + M11-12	
	EM502	Modelling, Dynamics and control of EVs	3-0-2-8	YES	YES	NO	NO	NO	NO	KK	C + M11-12 + Th4-5	
	ME 674	Soft Computing in Engineering	3-0-0-6	YES	YES	YES	YES	NO	YES	SUP	D + Th4-5	
G-2	RA 501	Fundamental of Robotics	3-0-0-6	YES	YES	YES	YES	YES	YES	SKD	C1 + F5-6	G1
	ME 640	Robotics and Robot Application	3-0-0-6	YES	YES	NO	YES	YES	NO	SMH		
	ME 678	Mechanics of Sheet Metal Forming	3-0-0-6	YES	YES	NO	YES	YES	NO	RGN		
	ME 659	Tribology of Bearings	3-0-0-6	NO	YES	NO	NO	YES	NO	SKK		
G-3	ME 512	Welding and Additive Manufacturing	3-0-0-6	YES	NO	NO	CORE	NO	NO	PB	E	D
	ME 689	Smart Materials: Modelling and Application	3-0-0-6	YES	YES	NO	NO	YES	YES	AB		
	ME 521	Conduction and radiation	3-0-0-6	NO	NO	CORE	NO	YES	YES	AMD+D NB		
G-4	ME 531	Mechanical Vibrations	3-0-0-6	YES	CORE	NO	YES	YES	NO	SKD	A1 + Th8-9	A1
	ME 679	Mechanical Behaviour of Materials	3-0-0-6	YES	NO	NO	YES	YES	NO	SB	A1	
	ME 550	Introduction to Aerospace Engineering	3-0-0-6	NO	NO	YES	NO	NO	CORE	GM		
G-5	ME 520	Fluid Mechanics	3-0-0-6	YES	NO	CORE	NO	YES	NO	DNB	E1	E1
	ME 510	Subtractive Manufacturing	3-0-0-6	YES	NO	NO	CORE	NO	NO	MD		
	ME 530	Advanced Mech of Solids	3-0-0-6	NO	CORE	NO	NO	YES	NO	KSRKM	Tu, W, Th 5-6	

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	ME 551	Aerodynamics	3-0-0-6	NO	NO	NO	NO	YES	CORE	BK	E1	
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G-6	ME 606	Solidification Processing	3-0-0-6	YES	NO	NO	YES	NO	NO	PSR	B1	F1
	ME 532	Finite Element Methods in Engineering	3-0-0-6	YES	CORE	NO	YES	CORE	YES	USD		
	ME 523	Advanced Thermodynamics	3-0-0-6	NO	NO	CORE	NO	NO	YES	NS		
G-7	ME609	Optimization Methods in Engineering	3-0-0-6	YES	YES	YES	YES	YES	YES	DS	B	B
G-8	ME698	Applied Nonlinear Control	3-0-0-6	YES	YES	YES	YES	YES	YES	BSR	G	G

Requirement&Availability

Stream	Required No. Of Electives	Available No. Of Groups	Available No. of Electives
B.Tech 7 th	2	8	15
MD	1	5	10
FT	1	5	6
MSE	2	6	11
CM	2	6	13
AP	2	6	9