

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	YES	NO	YES	NO	CORE	YES	AS	D	D
	ME 679	Mechanical Behaviour of Materials	3-0-0-6	YES	YES	NO	YES	NO	NO	SB		
	ME 674	Soft Computing in Engineering	3-0-0-6	YES	YES	YES	YES	NO	YES	SUP		
G-2	RA 501	Fundamental of Robotics	3-0-0-6	YES	YES	YES	YES	YES	YES	SKD	D1 + Tu 3-4	D1
	ME 690	Hydrodynamic Stability and Transition to Turbulance	3-0-0-6	YES	NO	YES	NO	YES	YES	BK	D1 + Tu 3-4 + Th 5-6	
	ME 678	Mechanics of Sheet Metal Forming	3-0-0-6	YES	YES	NO	YES	NO	NO	RGN	D1 + Tu 3-4	
	ME 659	Tribology of Bearings	3-0-0-6	NO	YES	YES	YES	YES	YES	SKK		
G-3	ME 512	Welding and Additive Manufacturing	3-0-0-6	YES	NO	NO	CORE	NO	NO	PB	E+M5-6	E
	ME 664	Theory of Elasticity	3-0-0-6	YES	YES	NO	NO	YES	NO	TDP		
	ME 521	Conduction and radiation	3-0-0-6	NO	NO	CORE	NO	YES	YES	AMD		
	ME 644	Modern Control	3-0-0-6	YES	YES	NO	NO	YES	YES	KK		
G-4	ME 531	Mechanical Vibrations	3-0-0-6	YES	CORE	NO	YES	YES	NO	SKD	C	C
	ME 686	Micro-manufacturing	3-0-0-6	NO	NO	NO	YES	NO	NO	SNJ		
	ME 550	Introduction to Aerospace Engineering	3-0-0-6	NO	NO	YES	NO	YES	CORE	UKS		
G-5	ME 520	Fluid Mechanics	3-0-0-6	NO	NO	CORE	NO	YES	NO	DNB	B1 + Tu4-5	A1
	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	AB		
	ME 551	Aerodynamics	3-0-0-6	NO	NO	NO	NO	YES	CORE	GM		

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				B.Tech.	MD	FT	MSE	CM	AP			
G-6	ME 606	Solidification Processing	3-0-0-6	YES	NO	NO	YES	NO	NO	PSR	C1	G1
	ME 523	Advanced Thermodynamics	3-0-0-6	NO	NO	CORE	NO	YES	YES	TKM		
G-7	ME609	Optimization Methods in Engineering	3-0-0-6	YES	YES	YES	YES	YES	YES	DS	B	B
G-8	ME 532	Finite Element Methods in Engineering	3-0-0-6	YES	CORE	YES	YES	CORE	YES	USD	F	F

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	9
FT	1	5	8
MSE	2	6	10
CM	2	6	13
AP	2	6	11