

Elective Grouping

YES: CAN OPT; NO: CANNOT OPT

CORE: COMPULSORY

Group	Course code	Course title	Instructor	L-T-P-C	6 th	8 th	AP	CM	FT	MD	MSE	Exam Slots
G1	ME 623	Dynamics of Machining Processes	RKM	3-0-0-6	YES	NO	NO	NO	NO	YES	YES	A
	ME657	Two Phase Flow and Heat Transfer	MP	3-0-0-6	YES	YES	YES	NO	YES	NO	NO	
	ME 542	Numerical Analysis	DS	2-0-2-6	NO	YES	YES	CORE	YES	YES	YES	
G2	ME 692	Gear Engineering	SSV	3-0-0-6	NO	YES	NO	NO	NO	YES	YES	C
	ME 541	Continuum Mechanics	SSG	3-0-0-6	NO	NO	NO	CORE	YES	YES	YES	
	ME 552	Aircraft Propulsion	NS & TKM	3-0-0-6	NO	NO	CORE	NO	YES	NO	NO	
G3	ME 619	Fundamentals of Microfluidics	AMD	3-0-0-6	NO	NO	NO	YES	YES	NO	NO	D
	ME 511	Engineering Materials and Characterization	SUP	3-0-0-6	NO	NO	YES	YES	YES	YES	CORE	
	ME 607	Introduction to Composite Materials	DC	3-0-0-6	NO	YES	NO	YES	NO	YES	NO	
	ME 648	Viscous Fluid Flow	AKD	3-0-0-6	NO	NO	NO	YES	YES	NO	NO	
G4	ME 513	Physics of Deformation Processes	RGN	3-0-0-6	NO	YES	NO	YES	NO	YES	CORE	E
	ME 622	Fundamentals of Fusion Energy Generation and Tokamaks	VKB	3-0-0-6	YES	NO	NO	NO	YES	NO	NO	
	ME 553	Gas Dynamics	BK	3-0-0-6	YES	NO	CORE	NO	NO	NO	NO	

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G5	ME 554	Rocket Propulsion	UKS	3-0-0-6	NO	NO	CORE	NO	NO	NO	NO	G
	ME 605	Fracture, Fatigue and Failure Analysis	KSRKM	3-0-0-6	NO	NO	NO	YES	NO	YES	YES	
	ME 522	Convective Heat Transfer	AD	3-0-0-6	NO	NO	NO	NO	CORE	NO	NO	
G6	ME 617	Manufacturing of Polymers and Polymer Composite	UKK	3-0-0-6	NO	YES	NO	YES	NO	YES	YES	C1
	ME 615	Rotor Dynamics	RT	3-0-0-6	NO	YES	NO	YES	NO	YES	NO	
	ME 670	Advanced Computational Fluid Dynamics	AS	3-0-0-6	NO	NO	YES	YES	YES	NO	NO	
G7	ME696	Biomedical Devices and Systems	SK	3-0-0-6	NO	YES	YES	YES	YES	YES	YES	F
	ME 609	Optimization Methods in Engineering	USD	3-0-0-6	NO	YES	YES	YES	YES	YES	YES	
G8	ME 613	Nonlinear Vibrations	SKD	3-0-0-6	NO	YES	YES	YES	YES	YES	YES	B
	ME 620	Fundamentals of Artificial Intelligence	SMH	3-0-0-6	NO	YES	YES	YES	YES	YES	YES	

Elective Grouping

Class Slots
A
C
D
E + F2-3

Elective Grouping

M8-9, Tu11-12, W12-1
W 5-6, Th 5-6, F5-6
M2-3, Tu11-12, W12-1
M3-4, Tu2-3, W2-3
C1
C1
F
B

Requirement and Availability

Stream	Required No. Of Electives	Available No. Of Groups	Available No. of Electives
B.Tech 6 th	1	2	4
B.Tech 8 th	1	5 (Only Dept elective)	7 (Only Dept. Elective)
MD	5	8	14
FT	4	7	11
MSE	2	6	10
CM	3	6	13
AP	2	5	8