

**List of electives, July-November 2020**  
**Dept. of Mechanical Engineering**

**YES: CAN OPT;    NO: CANNOT OPT    CORE: COMPULSORY**

Group	Course code	Course title	L-T-P-C	Open for						Instructor
				B.Tech.	MD	FT	MSE	CM	AP	
G-1	ME 543	Computational Fluid Dynamics	3-0-0-6	YES	NO	YES	NO	CORE	YES	Anoop K. Dass
	ME 678	Mechanics of Sheet Metal Forming	3-0-0-6	YES	YES	NO	YES	NO	YES	R Ganesh Narayanan
	ME 640	Robotics and Robot Application	3-0-0-6	YES	YES	YES	YES	NO	YES	Shyamanta M. Hazarika
G-2	ME 659	Tribology of Bearings	3-0-0-6	NO	YES	YES	YES	YES	YES	S. K. Kakoty
	ME 606	Solidification Processing	3-0-0-6	YES	NO	NO	YES	YES	NO	Swarup Bag
	EM502	Modelling, Dynamics and control of EVs	3-0-2-8	YES	YES	YES	YES	YES	YES	Karuna Kalita
G-3	ME 676	Theory of Plates and Shells	3-0-0-6	YES	YES	NO	YES	YES	YES	Poonam Kumari
	ME 679	Mechanical Behaviour of Materials	3-0-0-6	YES	YES	NO	YES	YES	NO	Prasenjit Khanikar
	ME 520	Fluid Mechanics	3-0-0-6	NO	NO	CORE	NO	YES	YES	G. Madhusudhana
G-4	ME 531	Mechanical Vibrations	3-0-0-6	YES	CORE	NO	YES	YES	NO	R Tiwari
	ME 550	Introduction to Aerospace Engineering	3-0-0-6	YES	NO	YES	NO	YES	CORE	Ujjwal K. Saha
	EM 503	Energy storage & conversion	3-0-2-8	YES	NO	YES	YES	YES	NO	P. Muthukumar
G-5	ME 521	Conduction and radiation	3-0-0-6	NO	NO	CORE	NO	YES	YES	A. Dalal
	ME 681	Engineering Design Methodologies	2-0-2-6	YES	YES	NO	YES	YES	YES	S. Senthilvelan
G-6	ME 532	Finite Element Methods in Engineering	3-0-0-6	YES	CORE	NO	YES	CORE	YES	Arup K. Nandy
	ME 523	Advanced Thermodynamics	3-0-0-6	NO	NO	CORE	NO	NO	YES	D.N. Basu and Manmohan Pandey
G-7	ME609	Optimization Methods in Engineering	3-0-0-6	YES	YES	YES	YES	YES	YES	Deepak Sharma

M.Tech. programmes: MD: Machine Design; FTE: Fluid-thermal Engineering; MSE: Manufacturing Science and Engineering; CM: Computational Mechanics; AP: Aerodynamics and Propulsion; OD: Open elective to all branches and elective to BTech (ME)