

	Third Semester						Fourth Semester				
Code	Subject Name	L	T	P	C	Code	Subject Name	L	T	P	C
MEE2001	Engineering Economics	3	0	0	3	MAS2001	Statistics & Probability	3	0	0	3
MBB21XX	Management of Technology	3	0	0	3	MEE2201	Fluid Mechanics	2	1	2	4
MEE2101	Materials Science & Metallurgy	4	0	0	4	MEE2202	Production Technology	4	0	0	4
MEE2102	Thermal Engineering	3	1	0	4	MEE22X	Flexi Core 2	4	0	0	4
MEE2103	Strength of Materials	2	1	2	4	MEE22X	Program Elective 1	3	0	0	3
MEE21X	Flexi Core 1	4	0	0	4	XXXX	Open Elective 1	3	0	0	3
MEE2130	Thermal Engineering-I Lab	0	0	2	1	MEE2230	Numerical Methods & Computational Lab	0	0	2	1
MEE2131	Computer Aided Drawing Lab	0	0	2	1	MEE2231	Production Technology Lab	0	0	2	1
MEE2170	Project-based Learning 1	0	0	2	1	MEE2270	Project-based Learning 2	0	0	2	1
	Total Contact Hours (L+T+P)	19	2	8	25		Total Contact Hours (L+T+P)	19	1	8	24
	Fifth Semester						Sixth Semester				
Code	Subject Name	L	T	P	C	Code	Subject Name	L	T	P	C
MEE3101	Design of Machine Elements	3	1	0	4	MEE3201	Finite Element Methods	3	1	0	4
MEE3102	Heat Transfer	3	1	0	4	MEE32XX	Program Elective 4	3	0	0	3
MEE31X	Flexi Core 3	4	0	0	4	MEE32XX	Program Elective 5	3	0	0	3
MEE31X	Program Elective 2	3	0	0	3	MEE3 XX	Program Elective 6	3	0	0	3
MEE31X	Program Elective 3	3	0	0	3	XXXX	Open Elective 3	3	0	0	3
MEEXXX	Open Elective 2	3	0	0	3	MEE3202	Professional Practice	1	0	0	1
MEE3130	Thermal Engineering II Lab	0	0	2	1	MEE3230	Smart manufacturing Lab	0	0	2	1
MEE3131	CIM & Automation Lab	0	0	2	1	MEE3231	Modelling & Simulation Lab	0	0	2	1
MEE3170	Project-based Learning 3	0	0	2	1	MEE3270	Project-based Learning 4				3
MEE3180	Research Methodology	1	0	0	1*	MEE32XX	Honors Elective1	3	0	0	3*
	Total Contact Hours (L+T+P)	20	2	6	25		Total Contact Hours (L+T+P)	19	1	4	25

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Seventh Semester						Eighth Semester					
Code	Subject Name	L	T	P	C	Code	Subject Name	L	T	P	C
MEE41XX	Program Elective 7	3	0	0	3	MEE4270	Major Project				12
MEE41XX	Program Elective 8	3	0	0	3	MEE42XX	Honors Project				8*
XXXX	Open Elective 4	3	0	0	3						
XXXX	Open Elective 5	3	0	0	3						
MEE4170	Internship (Industry or Research)	0	0	2	1						
MEE41XX	Honors Elective 2	3	0	0	3*						
MEE41XX	Honors Elective 3	3	0	0	3*						
	Total Contact Hours (L+T+P)	18	0	2	19		Total Contact Hours (L+T+P)				20

Flexi Cores

Flexi Core 1	Flexi Core 2	Flexi Core 3
MEE2120: Optimization Techniques XXXX: Data Structure & Algorithm	MEE2220: Theory of Machines XXXX: Relational Data Base Management System	MEE3120: Smart Manufacturing XXXX: Object-Oriented Programming System

Program Electives

IV	V	VI	VII
Program Elective 1 MEE2240: Product Design and Development MEE2241: Industrial Engineering MEE2242: Solar Energy Technology	Program Elective 2 MEE3140: Computational methods for mechanics and materials MEE3141: Control Systems MEE3142: Noise, Vibration and Harshness Program Elective 3 MEE3147: Advanced Engineering Materials MEE3148: Machinery Fault Diagnosis and Signal Processing MEE3149: Alternative Fuels	Program Elective 4 MEE3240: Artificial Intelligence and Machine Learning MEE3241: Refrigeration & air-Conditioning MEE3242: Sensors and actuators Program Elective 5 MEE3247: Reliability and Maintenance Management MEE3248: IC Engines MEE3249: Electric Vehicle Integration Program Elective 6 MEE3254: Flexible Manufacturing System	Program Elective 7 MEE4140: Computational Fluid Dynamics MEE4141: Computer Aided Design MEE4142: Non-Conventional Energy Systems Program Elective 8 MEE4147: Materials for Energy Systems MEE4148: Engineering Fracture Mechanics MEE4149: Advanced Manufacturing Processes

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		MEE3255: Aerodynamics MEE3256: Electric and hybrid vehicle	
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Open Electives

Graded OE	Non-Graded OE
1. MEE0001: Basics of Materials Engineering 2. MEE0002: Biomaterials 3. MEE0003: Product Design and Manufacturing 4. MEE0004: Joining Technology for Metals 5. MEE0005: Operations Management 6. MEE0006: Additive Manufacturing 7. MEE0007: Renewable Energy 8. MEE0008: Computational Methods	NIL

Program Electives for Hons

VI / VII
MEE3280: Quality Management – Pre-Requisite: NIL MEE4180: Operations and Supply Chain Management – Pre-Requisite: NIL MEE4181: Project Management – Pre-Requisite: NIL