Total Credit: 160

Faculty of Engineering, School of Automobile Mechanical and Mechatronics Engineering Department of Mechanical Engineering

Degree: B. Tech. Mechanical Engineering

	Third Semester						Fourth Semester				
Code	Subject Name	L	T	P	C	Code	Subject Name	L	Т	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
	Total Contact Hours (L+T+P)	19	2	6	24		Total Contact Hours (L+T+P)	16	1	4	22

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	Seventh Semester						Eighth Semester				
Code	Subject Name	L	T	P	С	Code	Subject Name	L	Т	P	C
MEE41XX	Program Elective 7	3	0	0	3	MEE4270	Major Project				12
MEE41XX	Program Elective 8	3	0	0	3						
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						
	Total Contact Hours (L+T+P)	12	0	2	13		Total Contact Hours (L+T+P)				12

Flexi Cores

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

Program Electives

IV	V	VI	VII
Program Elective 1	Program Elective 2	Program Elective 4	Program Elective 7
MEE2240: Product	MEE3140:	MEE3240: Artificial	MEE4140:
Design and	Computational methods	Intelligence and	Computational Fluid
Development	for mechanics and	Machine Learning	Dynamics
MEE2241: Industrial	materials	MEE3241:	MEE4141: Computer
Engineering	MEE3141: Control	Refrigeration & air-	Aided Design
MEE2242: Solar	Systems	Conditioning	MEE4142: Non-
Energy Technology	MEE3142: Noise,	MEE3242: Sensors	Conventional Energy
	Vibration and	and actuators	Systems
	Harshness	Program Elective 5	Program Elective 8
	Program Elective 3	MEE3247: Reliability	MEE4147: Materials
	MEE3147: Advanced	and Maintenance	for Energy Systems
	Engineering Materials	Management	MEE4148:
	MEE3148: Machinery	MEE3248: IC	Engineering Fracture
	Fault Diagnosis and	Engines	Mechanics
	Signal Processing	MEE3249: Electric	MEE4149: Advanced
	MEE3149: Alternative	Vehicle Integration	Manufacturing
	Fuels	Program Elective 6	Processes
		MEE3254: Flexible	
		Manufacturing System	
		MEE3255:	
		Aerodynamics	
		MEE3256: Electric	
		and hybrid vehicle	

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Open Electives

Graded OE	Non-Graded OE
1. MEE0001: Basics of Materials Engineering	NIL
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	