

Faculty of Engineering, School of Automobile Mechanical and Mechatronics Engineering
 Department of Mechanical Engineering
 Degree: B. Tech. (Hons) Automobile Engineering Total Credit: 178 (160 + 18*)

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
MBB20XX	Management of Technology	3	0	0	3	AUT2201	Vehicle Architecture	3	0	2	4
MEE2101	Materials Science & Metallurgy	4	0	0	4	AUT2202	Vehicle Control Systems	4	0	0	4
MEE2102	Thermal Engineering	4	0	0	4	AUT222X	Flexi Core 2	4	0	0	4
MEE2103	Strength of Materials	2	1	2	4	AUT22XX	Program Elective 1	3	0	0	3
AUT21X	Flexi Core 1	4	0	0	4	XXXXXX	Open Elective 1	3	0	0	3
AUT2130	Computer Aided Drawing Lab	0	0	2	1	AUT2230	Vehicle Control System Lab	0	0	2	1
AUT2131	Automotive Engines Lab	0	0	2	1	AUT2231	Automotive Data Analytics Lab	0	0	2	1
AUT2170	Project-based Learning 1	0	0	2	1	AUT2270	Project-based Learning 2	0	0	2	1
		20	1	8	25			20	0	8	24
	Total Contact Hours (L+T+P)	29					Total Contact Hours (L+T+P)	28			
Fifth Semester						Sixth Semester					
Code	Subject Name	L	T	P	C	Code	Subject Name	L	T	P	C
AUT3101	Automotive Design	3	1	0	4	AUT3201	Quality Engineering	3	0	2	4
AUT3102	Vehicle Drive Line Systems	4	0	0	4	AUT 32XX	Program Elective 4	3	0	0	3
AUT 312X	Flexi Core 3	4	0	0	4	AUT 32XX	Program Elective 5	3	0	0	3
AUT 31XX	Program Elective 2	3	0	0	3	AUT 32XX	Program Elective 6	3	0	0	3
AUT 31XX	Program Elective 3	3	0	0	3	XXXXXX	Open Elective 3	3	0	0	3
XXXXXX	Open Elective 2	3	0	0	3	AUT3202	Professional Practice	1	0	0	1
AUT3130	Automotive Design Lab	0	0	2	1	AUT3230	Vehicle Electronics System Lab	0	0	2	1
AUT3131	Vehicle Drive Line Systems Lab	0	0	2	1	AUT3231	Modelling & Simulation Lab	0	0	2	1
AUT3170	Project-based Learning 3	0	0	2	1	AUT3270	Project-based Learning 4				3
MEE3180*	Research Methodology	1	0	0	1	MEE328X*	Honors Elective1	3	0	0	3
		21	1	6	25			19	0	6	25

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		28								25	
Total Contact Hours (L+T+P)						Total Contact Hours (L+T+P)					
Seventh Semester						Eighth Semester					
Code	Subject Name	L	T	P	C	Code	Subject Name	L	T	P	C
AUT41XX	Program Elective 7	3	0	0	3	AUT4270	Major Project				12
AUT41XX	Program Elective 8	3	0	0	3	MEE428X*	Honors Project				8
XXXXXX	Open Elective 4	3	0	0	3						
XXXXXX	Open Elective 5	3	0	0	3						
AUT4170	Internship (Industry or Research)	0	0	2	1						
MEE418X*	Honors Elective 2	3	0	0	3						
MEE418X*	Honors Elective 3	3	0	0	3						
		18	0	2	19						20
Total Contact Hours (L+T+P)		20				Total Contact Hours (L+T+P)					

Flexi Core

Flexi Core 1	Flexi Core 2	Flexi Core 3
AUT2120 Conventional & Hybrid Engines	AUT2220 Automotive Pneumatic & Hydraulic Systems	AUT3120 Vehicle Dynamics
XXXXXX Data Structure & Algorithm	XXXXXX Relational Data Base Management System	XXXXXX Object-Oriented Programming System

Program Electives			
IV	V	VI	VII
Program Elective 1 <ul style="list-style-type: none"> • AUT2240: Kinematics and Dynamics of Automobile • AUT2241: Two and Three-wheeled Vehicle Systems • AUT2242: Product Design & Development 	Program Elective 2 <ul style="list-style-type: none"> • AUT3140: Manufacturing Technology • AUT3141: Machine Learning for Automotives • AUT3142: Computer Integrated Manufacturing Program Elective 3 <ul style="list-style-type: none"> • AUT3147: Heat Transfer in Automotive System 	Program Elective 4 <ul style="list-style-type: none"> • AUT3240: Electric Vehicle Integration • AUT3241: EV Motor Drives and Power Electronics • AUT3242: EV Telematics and tracking Program Elective 5 <ul style="list-style-type: none"> • AUT3247: Computational Fluid Dynamics 	Program Elective 7 <ul style="list-style-type: none"> • AUT4140: Optimization Techniques • AUT4141: Automotive Service Operation • AUT4142: Vehicle Fault Diagnosis & Trouble Shooting Program Elective 8 <ul style="list-style-type: none"> • AUT4147: AI for Automobiles

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	<ul style="list-style-type: none"> • AUT3148: Autonomous Vehicle • AUT3149: Automotive Pollution & Control 	<ul style="list-style-type: none"> • AUT3248: Computer-Aided Design & FEA • AUT3249: Automotive Noise, Vibrations & Harshness <p style="text-align: center;">Program Elective 6</p> <ul style="list-style-type: none"> • AUT3254: Vehicle Ergonomics & Safety Systems • AUT3255: Production and Operations Management • AUT3256: Vehicle Body Engineering 	<ul style="list-style-type: none"> • AUT4148: Automotive Air Conditioning Systems • AUT4149: Earth Moving Equipment
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Open Electives

Graded OE	Non-Graded OE
OE1. MEE0001: Basics of Materials Engineering OE2. MEE0002: Biomaterials OE 3. MEE0003: Product Design and Manufacturing OE4. MEE0004: Joining Technology for Metals OE5. MEE0005: Operations Management OE6. MEE0006: Additive Manufacturing OE7. MEE0007: Renewable Energy OE8. 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