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

Degree: B. Tech. Automobile Engineering   Total Credit: 160

Code	Subject Name	L	T	P	C	Code	Subject Name	L	T	P	C
Third Semester						**Fourth Semester**					
MEE2001[i]	Engineering Economics	3	0	0	3	**MAS2001**	Statistics & Probability	3	0	0	3
MBB21XX	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	**XXXXXXX**	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**					
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
		20	1	6	24			16	0	6	22
	Total Contact Hours (L+T+P)	**27**					**Total Contact Hours (L+T+P)**	**22**			

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Code	**Seventh Semester** Subject Name	L	T	P	C	Code	**Eighth Semester** 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						
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						
		12	0	2	13						12
	Total Contact Hours (L+T+P)	**14**					**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
XXXXX Data Structure & Algorithm	XXXXX Relational Data Base Management System	XXXXX Object-Oriented Programming System

Program Electives			
IV	V	VI	VII
Program Elective 1 - AUT2240: Kinematics and Dynamics of Automobile - AUT2241: Two and Three-wheeled Vehicle Systems - AUT2242: Product Design & Development	**Program Elective 2** - AUT3140: Manufacturing Technology - AUT3141: Machine Learning for Automotives - AUT3142: Computer Integrated Manufacturing **Program Elective 3** - AUT3147: Heat Transfer in Automotive System - AUT3148: Autonomous Vehicle - AUT3149: Automotive Pollution & Control	**Program Elective 4** - AUT3240: Electric Vehicle Integration - AUT3241: EV Motor Drives and Power Electronics - AUT3242: EV Telematics and tracking **Program Elective 5** - AUT3247: Computational Fluid Dynamics - AUT3248: Computer-Aided Design & FEA - AUT3249: Automotive Noise, Vibrations & Harshness	**Program Elective 7** - AUT4140: Optimization Techniques - AUT4141: Automotive Service Operation - AUT4142: Vehicle Fault Diagnosis & Trouble Shooting **Program Elective 8** - AUT4147: AI for Automobiles - AUT4148: Automotive Air Conditioning Systems - AUT4149: Earth Moving Equipment

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		Program Elective 6 • AUT3254: Vehicle Ergonomics & Safety Systems • AUT3255: Production and Operations Management • AUT3256: Vehicle Body Engineering	

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

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[i] Statistics & Probability: CSE, AIML, SEEC students will take in 3rd semester. Engineering Economics: SIT, SCCE, All Core (-) SEEC will take in 3rd semester. In 4th semester, these courses are switched.