Galgotias University							
Program Name : B.Tech (Mechanical Engineering with specialization in E- Vehicles & Autonomous Vechicles)							
Scheme 2023-27							
Semester-1							
Sl. No.	**Course Code**	**Subject Name**	**Course Type**	**L**	**T**	**P**	**C**
1	O1UA104B	Communication Skills for Engineers	T	2	0	1	3
2	CIUC122B	Enginnering Mathematics I	I	3	0	1	4
3	C1UD124B	Semi conductor Physics	I	3	0	1	4
4	G2UA120B	Basic Electrical & Electronics Engg.	I	3	0	1	4
5	E3UC102C	Programming for Problem Solving - C	C	2	0	1	3
6	C2UB120T	Environmental Impact Analysis	T	2	0	0	2
7	CIUD123B	Modern Physics		3	0	1	4
							24
Semester-2							
Sl. No.	**Course Code**	**Subject Name**	**Course Type**	**L**	**T**	**P**	**C**
1	CIUD122B	Condesed matter Physics	T	3	0	0	3
2	CIUC222B	Enginnering Mathematics II	T	3	0	1	4
3	G3UB101B	Engineering Design and prototyping	I	1	0	4	5
4	C1UB129T	Chemical and biological materials	T	3	0	0	3
5	G3UB201B	Engineeering Workshop	I	2	0	1	3
6	G3UB201T	Engineering Mechanics	T	3	0	0	3
7	L1UB120T	YOGA	T	2	0	0	2
							23
Sl. No.	**Course Code**	**Course Title**	**Course Type**	**L**	**T**	**P**	**C**
1	G3UB301T	Applied Engineering Mechanics	T	3	0	0	3
2	G3UB302T	Engineering Thermodynamics	T	3	0	0	3
3	G3UB303B	Manufacturing Processes I	I	3	0	1	4
4	G3UB304B	Material Science (PBL)	I	2	0	1	3
5	C1UC321T	Functions of complex variables and Transforms	T	3	0	0	3
6	O1UA421B	Communication copetency and aptitude building-1	T	2	0	0	2
7	G3UB305B	Machine Drawing with Solid Works	C	3	0	1	4
		Total		**19**	**0**	**3**	**22**

Semester 4

Sl. No.	Course Code	Course Title	L	T	P	S	C
1	G3UB401B	Mechanics of Material	3	0	1		4
2	G3UB402C	Fluid Mechanics (PBL)	3	0	2		5
3	G3UB403B	Manufacturing Processes II and Metrology	3	0	1		4
4	K1UC320B	Communication copetency and aptitude building-2	1	0	1		2
5	C1UC424B	Numerical Methods	2	0	1		3
6	G3UB404B	Applied Thermodynamics	3	0	1		4
7	G2UA403T	Sensors & Transducers	3	0	0		3
		Total	**18**	**0**	**7**		**25**

Semester 5

Sl. No.	Course Code	Course Title	L	T	P	S	C
1	G3UB501T	Kinematics of Machines	3	0	0		3
2	G3UB502C	Machine Design (PBL)	3	0	2		5
3	G3UB503T	Automobile Engineering	2	0	0		2
4	G3UB504B	Heat and Mass Transfer	3	0	2		4
5	G3UB505B	Numerical Methods	2	0	2		3
6	G3UB506T	CAM, and Automation Theory	2	0	0		2
7	G3UB507T	Augumented Reality /Virtual Reality	3	0	0		3
8	K1UC523B	Communication copetency and aptitude building-3	2	0	0		2
9	G3UC501B	Fundamental of EV and HEV	2	0	2		3
		Total	**22**	**0**	**8**		**27**

Semester 6

Sl. No.	Course Code	Course Title	L	T	P	S	C
1	G3UB601B	Refrigeration and Air Conditioning	3	0	1		4
2	G3UB602B	Dynamics of Machines	3	0	1		4
3	G3UC601C	FEM (PBL Mode)	3	0	1	1	4
4	G3UC602B	Robotics	2	0	1		3
5	PE-1	Program Elective - 1	3	0	0		3
6	G3UC604C	EV/HEV Power Train	3	0	2		5
7	G3UC603B	EV drive and Control	2	0	1		3
8	O1UA602B	Soft Skill (Campus to Corporate)	1	0	1		2
		total	20	0	8		28

Semester 7						
Sl. No.	**Course Code**	**Course Title**	**L**	**T**	**P**	**C**
1	PE2	Program Elective - 2	3	0	0	3
2	PE3	Program Elective - 3	3	0	0	3
3	Will be given by ERP	Charging Infrastrucute for EV and HEV	3	0	0	3
4	Will be given by ERP	Charging Infrastrucute and Simulation (MATLAB)	0	0	2	1
5	Will be given by ERP	Elective (OE)	2	0	0	2
6	BTME9991/CII9015	Capstone Project- Phase I/Industrial Internship Domain 5	-	-	-	3
		Total	**11**	**0**	**16**	**15**
Semester 8						
Sl. No.	**Course Code**	**Course Title**	**L**	**T**	**P**	**C**
1	Will be given by ERP	SMEV Associate Industry Live Project	-	-	-	9
		Total				**9**
		LIST of Elective Courses -				
Sl No	**Course Code**	**Energy Engineering**	**L**	**T**	**P**	**C**
1	Will be given by ERP	Automative Safety	3	0	0	3
2	Will be given by ERP	EV Embedded system and ADAS	3	0	0	3
3	Will be given by ERP	AI and IOT applications for Automotive Industry	3	0	0	3
4	Will be given by ERP	In- Vehicle Networking	3	0	0	3
5	Will be given by ERP	Intelligent Transport System	3	0	0	3
6	Will be given by ERP	Fundamentals of Autonomus Vehicle	3	0	0	3
7	Will be given by ERP	Fundamentals of Hydrogen and Fuel cells	3	0	0	3