

Galgotias University									
Program Name : B.Tech ( Mechanical Engineering)									
Scheme 2023-27									
Semester-1									
Sl. No.	Course Code	Subject Name	Course Type	Course Categor	L	T	P	S	C
1	Will be given by ERP	Communication Skills for Engineers	T	AEC	2	0	0	0	2
2	Will be given by ERP	Multi Variable Calculus	I	MD	3	0	1	0	4
3	Will be given by ERP	Semi conductor Physics / Biology for Engineers	I	MAJOR	3	0	1	0	4
4	Will be given by ERP	Electronics Engg. / Engineering Graphics and Introduction	I	MAJOR	3	0	1	0	4
5	Will be given by ERP	Programming for Problem Solving - C	C	SEC	3	0	1	1	5
6	Will be given by ERP	YOGA / Environmental Impact Analysis	T	VAC	2	0	0	0	2
									21
Semester-2									
Sl. No.	Course Code	Subject Name	Course Type	Course Categor	L	T	P	S	C
1	Will be given by ERP	Linear Algebra & Differential Equations	T	MD	3	0	0	0	3
2	Will be given by ERP	Discrete Mathematics / Engineering Mechanics	T	MAJOR	3	0	0	0	3
3	Will be given by ERP	Electronics Engg. / Engineering Graphics and Introduction	I	MAJOR	3	0	1	0	4
4	Will be given by ERP	Semi conductor Physics / Biology for Engineers	I	MAJOR	3	0	1	0	4
5	Will be given by ERP	Engineering Workshop / Introduction of Digital System	I	MAJOR	2	0	1	0	3
6	Will be given by ERP	OOPS	C	SEC	3	0	1	1	5
7	Will be given by ERP	YOGA / Environmental Impact Analysis	T	VAC	2	0	0	0	2
									24
Semester 3									
Sl. No.	Course Code	Course Title	Course Type	L	T	P	S	C	
1	BTME2001	Engineering Mechanics	T	3	0	0		3	
2	BTME2002	Engineering Thermodynamics	T	3	0	0		3	
3	BTME2003	Manufacturing Processes I	I	3	0	2		4	
4	BTME2024	Material Science (PBL)	I	2	0	2		3	
5	MATH2001	Functions of complex variables and Transforms	T	3	0	0		3	
6	BTME2026	Microeconomics	T	3	0	0		3	
7	SLBT2021	Machine Drawing with Solid Works	C	3	0	2	1	5	
		<b>Total</b>		<b>20</b>	<b>0</b>	<b>6</b>		<b>24</b>	

Semester 4								
Sl. No.	Course Code	Course Title		L	T	P		C
1	BTME2008	Mechanics of Material		3	0	2		4
2	BTME2025	Fluid Mechanics (PBL)		2	0	2		3
3	BTME2010	Manufacturing Processes II and Metrology		3	0	2		4
4	MATH2003	Probability and Statistics		3	0	0		3
5	BTME2028	IOT and Cloud based Technology		3	0	0		3
6	BTME3021	Applied Thermodynamics		3	0	0		3
7	BTME3022	Sensors & Transducers		1	0	0		1
		<b>Total</b>		<b>18</b>	<b>0</b>	<b>6</b>		<b>21</b>
Semester 5								
Sl. No.	Course Code	Course Title	Course Type	L	T	P	S	C
1	Will be given by ERP	Kinematics of Machines	T	3	0	0		3
2	Will be given by ERP	Machine Design (PBL)	C	3	0	2	1	5
3	Will be given by ERP	Automobile Engineering	T	2	0	0		2
4	Will be given by ERP	Heat and Mass Transfer	I	3	0	2		4
5	Will be given by ERP	Numerical Methods	I	2	0	2		3
6	Will be given by ERP	CAM, and Automation Theory	T	2	0	0		2
7	Will be given by ERP	Augmented Reality /Virtual Reality	T	3	0	0		3
8	Will be given by ERP	English Proficiency and Aptitude Building - 5	I	1	0	2		2
9	Will be given by ERP	Fundamental of EV and HEV	I	3	0	2		4
		<b>Total</b>		<b>22</b>	<b>0</b>	<b>10</b>		<b>28</b>
Semester 6								
Sl. No.	Course Code	Course Title	Course Type	L	T	P	S	C
1	Will be given by ERP	Refrigeration and Air Conditioning	T	3	0	0		3
2	Will be given by ERP	Dynamics of Machines	I	3	0	2		4
3	Will be given by ERP	FEM (PBL Mode)	C	3	0	2	1	5
4	Will be given by ERP	Robotics and Automation	I	3	0	2		4
5	Will be given by ERP	Program Elective - 1	T	3	0	0		3
6	Will be given by ERP	EV/HEV Power Train	I	3	0	2		4
7	Will be given by ERP	EV drive and Control	I	3	0	2		4
8	Will be given by ERP	Soft Skill (Campus to Corporate)	I	1	0	2		2
		<b>total</b>		<b>22</b>	<b>0</b>	<b>12</b>		<b>29</b>

**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	PE4	Program Elective - 4	3	0	0	3
4	PE5	Program Elective - 5	3	0	0	3
5	BTME4008	Summer Internship	0	0	0	2
6	BTME9991/CI19015	Capstone Project- Phase I/Industrial Internship Domain 5	-	-	-	3
		<b>Total</b>	<b>12</b>	<b>38</b>	<b>0</b>	<b>17</b>

**Semester 8**

Sl. No.	Course Code	Course Title	L	T	P	C
1	BTME9992	Capstone Project- Phase II	-	-	-	9
		<b>Total</b>				<b>9</b>

**Professional Elective Courses - Streamwise**

Sl No	Course Code	Energy Engineering	L	T	P	C
1	BME021	Energy conservation and Management	3	0	0	3
2	BME022	Renewable energy systems	3	0	0	3
3	BME023	Energy Engineering Fundamental	3	0	0	3
4	BME024	Solar Energy Systems	3	0	0	3
5	BME025	Waste management and energy generation technologies	3	0	0	3
6	BME026	Solar architecture and energy-efficient building	3	0	0	3
7	BME027	Energy Resources, Economics & Environment	3	0	0	3
Sl No	Course Code	Smart Manufacturing	L	T	P	C
1	BME031	Earth, Environment & Design	3	0	0	3
2	BME032	Processing of Non-Metals	3	0	0	3
3	BME033	Advanced Welding Technology	3	0	0	3
4	BME034	Special Manufacturing Processes	3	0	0	3
5	BME035	Sensors and Controls	3	0	0	3
6	BME036	Data Analytics	3	0	0	3
7	BME037	Entrepreneurship and Management Functions	3	0	0	3
8	BME038	Manufacturing Systems	3	0	0	3

SI No	Course Code	Design	L	T	P	C
1	BME041	Design of transmission systems	3	0	0	3
2	BME042	Mechanical Vibrations	3	0	0	3
3	BME043	Finite Element Analysis	3	0	0	3
4	BME044	Design of Experiments	3	0	0	3
SI No	Course Code	Industrial & Production	L	T	P	C
	BME045	Supply Chain Management	3	0	0	3
	BME046	Total Quality Management	3	0	0	3
	BME047	Operations Management	3	0	0	3
SI No	Course Code	Mechatronics	L	T	P	C
1	BME071	Sensors and Actuators	3	0	0	3
2	BME072	Automatic Control Systems	3	0	0	3
3	BME073	Design of Mechatronics System	3	0	0	3
4	BME074	Modelling and Simulation of Mechatronics System	3	0	0	3
5	BME075	Computer Integrated Manufacturing	3	0	0	3
6	BME076	Robotics: Analysis and Systems	3	0	0	3
7	BME077	Drives and Control system for Automation	3	0	0	3
8	BME078	Process Control & Automation	3	0	0	3
9	BME079	Flexible Manufacturing Systems	3	0	0	3
10	BME080	Design of Mechanisms and Manipulators	3	0	0	3
SI No	Course Code	Industrial Internship Domain	L	T	P	C
1	CI9011	Industrial Internship Domain-1	3	0	0	3
2	CI9012	Industrial Internship Domain-2	3	0	0	3
3	CI9013	Industrial Internship Domain-3	3	0	0	3
4	CI9014	Industrial Internship Domain-4	3	0	0	3
5	CI9015	Industrial Internship Domain-5	3	0	0	3
SI No	Course Code	General Elective moved from Open Elective	L	T	P	C
1	BTME4001	Energy Systems and Technologies	3	0	0	3
2	BTME4006	Quality and Reliability Engineering	2	0	0	2