

School Name: School of Engineering
Department Name : Mechanical Engineering
Programme Name: B.Tech in Mechanical Engineering
Scheme: 2018-2022

SEMESTER I						
Sl. No.	Course Code	Course Title	L	T	P	C
1	BTME1001	Introduction to Mechanical Engineering	0	0	2	1
2	BCSE1002	Computer Programming and Problem Solving	0	0	4	2
3	UHVE1001	Universal Human Values and Ethics	0	0	4	2
4	MATH1005	Multivariable Calculus	3	0	0	3
5	MATH1007	Exploration with CAS-I	0	0	2	1
6	PHYS1001	Engineering Physics	3	0	0	3
7	PHYS1002	Engineering Physics lab	0	0	2	1
8	SLBT1011	English Proficiency and aptitude building-1	0	0	4	2
9	JAPA1001	JAPANESE -I	0	0	2	1
	FREN1001	FRENCH -I				
	GERN1001	GERMAN -I				
12	CHEM1001	Engineering Chemistry	3	0	0	3
13	CHEM1002	Engineering Chemistry Lab	0	0	2	1
14	BTME1003	Product Manufacturing	0	0	4	1

SEMESTER II						
Sl. No.	Course Code	Course Title	L	T	P	C
1	BCSE1003	Application Oriented Programming using Python	0	0	4	2
2	PSSO1001	Psychology and Sociology	2	0	0	2
3	MATH1006	Linear Algebra and Differential Equations	3	0	0	3
4	MATH1008	Exploration with CAS-II	0	0	2	1
5	SLBT1012	English Proficiency and Aptitude Building - 2	0	0	4	2
6	JAPA1002	JAPANESE -II	0	0	2	1
	FREN1002	FRENCH -II				0
	GERN1002	GERMAN -II				0
7	ENVS1001	Environmental Science	3	0	0	3
8	BEEE 1002	Basic Electrical and Electronics Engineering	3	0	0	3
9	BEEE 1003	Basic Electrical and Electronics Engineering Lab	0	0	2	1
10	BTME1002	Product Design using graphics	0	0	2	1

SEMESTER III						
Sl. No.	Course Code	Course Title	L	T	P	C
1	BTME2001	Engineering Mechanics	3	0	0	3
2	BTME2002	Engineering Thermodynamics	3	0	0	3
3	BTME2003	Manufacturing Processes I	3	0	0	3
4	BTME2004	Manufacturing Processes-1 Lab	0	0	2	1
5	BTME2005	Machine Drawing Lab	0	0	2	1
6	BTME2006	Skill-In-Solid Works	0	0	2	1
7	BTME2007	PBL-In- M/C Drawing	0	0	2	1
8	MATH2008	Functions of complex variables and Transforms	3	0	0	4
9	SLBT2021	English Proficiency and Aptitude Building - 2	0	0	4	2
10	BTME2015	Material Science	3	0	0	3
11	BTME2016	Material Science Lab	0	0	2	1

SEMESTER V						
Sl. No.	Course Code	Course Title	L	T	P	C
1	BTME3021	Applied Thermodynamics I	3	0	0	3
2	BTME3002	Kinematics of Machines	3	0	0	3
3	BTME3017	AI and Machine learning using Python	2	0	0	2
4	BTME3025	Machine design (PBL)	0	0	2	1
5	BTME3026	Automobile Engineering	0	0	2	2
6	SLBT3001	English Proficiency and Aptitude Building - 5	0	0	4	2
7		Program Elective - 1	3	0	0	3
8		Program Elective - 2	3	0	0	3
9	BTME3002	Sensors and Transducers	3	0	0	3
10	BTME3023	Additive Manufacturing Lab	0	0	2	2
11	BTME3024	Structure and fluid Mechanics Lab	0	0	1	1

SEMESTER VI						
Sl. No.	Course Code	Course Title	L	T	P	C
1	BTME3008	Dynamics of Machines	3	0	0	3
2	BTME3004	Applied Thermodynamics and HMT lab	3	0	0	3
3	MAT252	Numerical Method Lab	0	0	2	1
4	MATH3010	Numerical Method	2	0	0	2
5	HMT3003	Heat and Mass Transfer	3	0	0	3
6	BTME3019	Dynamics of Machines Lab	0	0	2	1
7	BTME3067	Refrigeration and Air Conditioning	3	0	0	3
8		Program Elective - 3	3	0	0	3
9		Program Elective - 4	3	0	0	3
10	SLBT3002	Soft Skill -6 (Campus to Corporate)	0	0	4	2

SEMESTER VII						
Sl. No.	Course Code	Course Title	L	T	P	C
1	BTME4001	Energy Systems and Technologies	3	0	0	3
2	BTME4005	Optimization Techniques and Applications	2	0	0	2
3	BTME4006	Quality and Reliability Engineering	2	0	0	2
4	BTME4010	Project Management	1	0	0	1
5	BTME4004	Comprehensive Examination	1	0	0	1
6	BTME4003	Energy Systems Lab	0	0	2	1
7	BTME4008	Industrial Internship	0	0	0	2
8	BTME9991	Capstone Project- Phase I	0	0	0	2

SEMESTER VIII						
Sl. No.	Course Code	Course Title	L	T	P	C
1	BTME9999	Capstone Project- Phase II	0	0	0	9

Professional Elective Courses - Streamwise						
Sl No	Course Code	Automobile and Vehcile Design	L	T	P	C
1	BTME3051	Automobile Engineering	3	0	0	3
2	BTME3052	Robotics	3	0	0	3
3	BTME3053	Computational Fluid Dynamics	3	0	0	3
4	BTME3054	Welding Technology	3	0	0	3
5	BTME3055	Supply Chain Management	3	0	0	3
6	BTME3056	Product Design	3	0	0	3
7	BTME3057	Advance Machining Processes	3	0	0	3
8	BTME3058	Mechatronics	3	0	0	3
9	BTME3059	Project Management	3	0	0	3
10	BTME3060	Computer Aided Design	3	0	0	3
11	BTME3061	Finite Element Analysis	3	0	0	3
12	BTME3062	Mechanical Measurements	3	0	0	3