

School Name: School of Engineering
Department Name : Mechanical Engineering
Programme Name: B.Tech in Mechanical Engineering
Scheme: 2019-2023

SEMESTER I						
Sl. No.	Course Code	Course Title	L	T	P	C
1	BMA101	Mathematics-I (Multivariable Calculus)	3	0	0	3
2	BMA151	Exploration with CAS-I	0	0	2	1
3	FENG1005	Functional English	2	0	0	2
4	BCS101	Fundamentals of Computer Programming	3	0	0	3
5	BCS151	Fundamentals of Computer Programming Lab – 1	0	0	2	1
6	BPH101	Engineering Physics	3	0	0	3
7	BPH151	Engineering Physics Lab	0	0	2	1
8	BME101	Elements of Mechanical Engineering	3	0	0	3
9	BLE101	Psychology and Sociology	2	0	0	2
10	BME151	Workshop Practice	0	0	2	1

SEMESTER II						
Sl. No.	Course Code	Course Title	L	T	P	C
1	BMA201	Linear Algebra and Differential Equations	3	0	0	3
2	BMA251	Exploration with CAS-II	0	0	2	1
3	BHS251	Professional Communication Lab	0	0	2	1
4	BOC253	Design and Innovation	0	0	2	1
5	BCH102	Engineering Sciences	3	0	0	3
6	BCH153	Engineering Sciences Lab	0	0	2	1
7	BEC101	Basic Electrical and Electronics Engineering	3	0	0	3
8	BCS901	Disruptive Technologies	3	0	0	3
9	BEC151	Basic Electrical and Electronics Engineering Lab	0	0	2	1
10	BME152	Engineering Graphics	0	0	4	2
11	BCS251	Application of Programming using Python	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	BTME2016	Material Science	2	0	2	3
5	MATH2008	Functions of complex variables and Transforms	3	0	0	3
6	BTME2021	Artificial Intelligence and Applications	1	0	0	1
7	SLBT2021	English Proficiency and Aptitude Building -3	0	0	4	2
8	BTME2004	Manufacturing Processes I Laboratory	0	0	2	1
9	BTME2005	Machine Drawing	0	0	2	1
9	BTME2007	Machine Drawing Laboratory (PBL)	0	0	2	1
10	BTME2006	SKILL Lab (Solid Works)	0	0	2	1
11	BTME2023	Excel, PPT Training and Hobby class	0	0	2	1

SEMESTER IV						
Sl. No.	Course Code	Course Title	L	T	P	C
1	BTME2008	Mechanics of Material	3	0	0	3
2	BTME2009	Fluid Mechanics (PBL)	2	0	2	3
3	BTME2010	Manufacturing Processes II and Metrology	3	0	0	3
4	MATH2003	Probability and Statistics	3	0	0	3
5	BTME2020	Microeconomics	3	0	0	3
6	BTME2017	AI & Machine Learning using Python	0	0	4	2
7	SLBT2022	English Proficiency and Aptitude Building – 4	0	0	4	2
8	BTME2012	Mechanics of Material Laboratory	0	0	2	1
9	BTME2013	Manufacturing Processes II and Metrology Labor	0	0	2	1
10	BTME3023	Additive Manufacturing Lab	0	0	4	2
11	BTME3022	Sensors & Transducers	1	0	0	1

SEMESTER V						
Sl. No.	Course Code	Course Title	L	T	P	C
1	BTME3001	Applied Thermodynamics	3	0	0	3
2	BTME3002	Kinematics of Machines	3	0	0	3
3	BTME3013	Machine Design (PBL)	1	0	4	3
4	BTME3051	Automobile Engineering	2	0	0	2
5	BTME3003	Heat and Mass Transfer	3	0	0	3
6	PE01	Program Elective - 1	3	0	0	3
7	PE02	Program Elective - 2	3	0	0	3
8	SLBT3001	Campus to Corporate	0	0	4	2
9	BTME3004	Applied Thermodynamics and HMT Lab	0	0	2	1
10	BTME3021	Structural and Fluid flow Analysis Lab	0	0	2	1

SEMESTER VI						
Sl. No.	Course Code	Course Title	L	T	P	C
1	BTME3067	Refrigeration and Air Conditioning	3	0	0	3
2	BTME3008	Dynamics of Machines	3	0	0	3
3	BTME3009	CAM and Automation	3	0	0	3
4	BTME3016	Mechatronics	3	0	0	3
5	MATH2002	Computer applications in Mechanical Engineering	2	0	2	3
6	PE03	Program Elective - 3	3	0	0	3
7	PE04	Program Elective - 4	3	0	0	3
8	PE05	Program Elective - 5	3	0	0	3
9	BTME3010	Dynamics of Machines Laboratory	0	0	2	1

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
8	BTME4008	Industrial Internship	0	0	0	2
9	BTME9991	Capstone Project- Phase I	0	0	0	2

SEMESTER VIII						
Sl. No.	Course Code	Course Title	L	T	P	C
1	BTME9992	Capstone Project- Phase II	0	0	0	9

		Professional Elective Courses - Streamwise					
SI No	Course Code	Automobile and Vehcile Design	L	T	P	C	
1	BTME3066	Renewable Energy Sources	3	0	0	3	
2	BTME3071	Electric and Hybrid Vehicles	3	0	0	3	
3	BTME3064	Fuels and Combustion	3	0	0	3	
4	BTME3053	Computational Fluid Dynamics	3	0	0	3	
5	BTME3072	Robotics and Automation	3	0	0	3	
6	BTME3060	Computer Aided Design	3	0	0	3	
7	BTME3054	Welding Technology	3	0	0	3	
8	BTME3055	Supply Chain Management	3	0	0	3	
9	BTME3057	Advance Machining Processes	3	0	0	3	
10	BTME3065	Metal Forming Theory and Practice	3	0	0	3	
11	BTME3056	Product Design	3	0	0	3	
12	BTME3061	Finite Element Analysis	3	0	0	3	
13	BTME3063	Design of Transmission Systems	3	0	0	3	