Intake:	2020 onwards	Specialization:	Mechanical Engineering
Details of the Curriculum		Stream:	Biomechanical Engineering

Module Code	Module Name	Category C/E/O	Time allocation [Hours/Week]		Credits offered		Norm		Evaluation %	
			Lecture	Lab / Tute	GPA	NGPA	GPA	NGPA	CA	WE
Semester 1		**Specialization requirement**					**15.0**			
ME1033	Mechanics	C	2	2/4	2.0	-			20	80
CE1023	Fluid Mechanics	C	2	2/4	2.0	-			20	80
CS1033	Programming Fundamentals	C	2	2	3.0	-			20	80
EE1040	Electrical Fundamentals	C	2	2/4	2.0	-	15.0	0.0	20	80
EL1030	Language Skills Enhancement [S1 & S2]	C	-	2	1.0	-			100	-
MA1014	Mathematics	C	5/2	1	3.0	-			20	80
MT1023	Properties of Materials	C	2	2/4	2.0	-			20	80
		Total			**15.0**	**0.0**	**15.0**	**0.0**		
Semester 2		**Specialization requirement**					**21.0**			
ME1101	Mechanics of Materials I	C	2	2	3.0	-			30	70
ME1071	Manufacturing Technology	C	1	4	3.0	-			70	30
ME1120	Engineering Graphics and Machine Drawing	C	1	4	3.0	-			100	-
ME1053	Fundamentals of Engineering Thermodynamics	C	5/2	2/2	3.0	-	21.0	0.0	30	70
ME2041	Fundamentals of Mechatronics	C	1	4	3.0	-			50	50
MA1024	Methods of Mathematics	C	5/2	1	3.0	-			30	70
MT1814	Engineering Materials	C	3/2	2/2	2.0	-			40	60
EL1030	Language Skills Enhancement [S1 & S2]	C	-	2	1.0	-			100	-
		Total			**21.0**	**0.0**	**21.0**	**0.0**		
Semester 3		**Specialization requirement**					**20.0**			
ME2093	Mechanics of Machines I	C	2	2	3.0	-			40	60
ME2061	Mechanics of Materials II	C	2	2	3.0	-			40	60
ME2024	Manufacturing Processes	C	3	2	4.0	-			40	60
MA2014	Differential Equations	C	2	-	2.0	-	20.0	0.0	30	70
MA2024	Calculus	C	2	-	2.0	-			30	70
EE2804	Applied Electricity	C	2	2	3.0	-			40	60
ME2310	Anatomy and Physiology	C	5/2	2/2	3.0				40	60
ME2161	Fundamentals of Automotive Engineering	E	5/2	2/2	3.0		-	-	40	60
		Total			**23.0**	**0**	**20**	**0**		
Semester 4		**Specialization requirement**					**21.0**			
ME2051	Mechanics of Machines II	C	2	2	3.0	-			40	60
ME2081	Design of Machine Elements	C	2	2	3.0	-			40	60
ME2113	Fluid Dynamics	C	5/2	2/2	3.0	-			30	70
ME2033	Thermodynamics of Heat and Work Transfer Devices	C	7/2	2/2	4.0	-	21.0	0.0	30	70
MA3014	Applied Statistics	C	2	-	2.0	-			30	70
ME2230	Instrumentation and Automation Systems	C	2	2	3.0	-			50	50
ME2320	Biomaterials	C	2	2	3.0				30	70
ME2171	Manufacturing Engineering	E	2	4	4.0	-	-	-	40	60
		Total			**25.0**	**0.0**	**21.0**	**0.0**		
Semester 5		**Specialization requirement**					**23.0**			
ME3201	Machine Design Project	C	-	8	4.0	-			100	-
ME3023	Industrial Fluid Flow Systems	C	7/2	2/2	4.0	-			40	60
ME3013	Control Systems Engineering	C	5/2	2/2	3.0	-			40	60
ME3043	Production and Operations Management	C	3	2	4.0	-	23.0	0.0	40	60
MA3024	Numerical Methods	C	2	-	2.0	-			30	70
MA3030	Operational Research	C	2	-	2.0	-			30	70
ME3880	Engineer and Society [S5 & S6]	C	-	2	1.0	-			80	20
ME3310	Biomechanics	C	5/2	2/2	3.0				40	60
		Total			**23.0**	**0.0**	**23.0**	**0.0**		
Industrial Training		**Specialization requirement**					**6.0**			
ME3993	Industrial Training	C	-	-	-	6.0	0.0	6.0	100	-
		Total			**0.0**	**6.0**	**0**	**6**		

Intake:	2020 onwards	Specialization:	Mechanical Engineering							
Semester 6		**Specialization requirement**					**10.0**			
ME3902	Technical Communication for Engineering	C	-	4	2.0	-	8.0	0.0	100	-
ME3330	Mechanical Engineering Project Formulation	C	1	2	2.0	-			100	-
ME3910	Social/Community Project	C	1	2	2.0	-			100	-
ME3880	Engineer and Society [S5 & S6]	C	1	2	2.0	-			100	-
HM-1	Humanities Elective	E			2.0	-	2.0	0.0	100	-
		Total			**10.0**	**0.0**	**10.0**	**0.0**		
Semester 7		**Specialization requirement**					**15.0**			
ME4203	Final Year Project [S7 & S8]	C	1	4	3.0	-	15.0	0.0	100	-
ME4830	Biomechatronics	C	2	2	3.0				40	60
ME4850	Design of Sports Equipment	C	2	2	3.0				40	60
ME4621	Rehabilitation Engineering	C	2	2	3.0				40	60
MN3043	Business Economics and Financial Accounting	C	3	-	3.0	-			30	70
ME4443	Heat Transfer	E	5/2	2/2	3.0	-	-	-	30	70
ME4243	Energy Systems Engineering	E	5/2	2/2	3.0	-			30	70
ME4463	Industrial Automation Systems	E	2	2	3.0	-			60	40
ME4311	Micro/Nano Electro Mechanical Systems and Nanotechnology	E	2	2	3.0	-			40	60
ME4453	Industrial Project Management	E	2	2	3.0	-			40	60
ME4533	Industrial Ergonomics	E	2	2	3.0	-			40	60
ME4333	Computer Aided Design & Manufacture	E	2	2	3.0	-			40	60
ME4513	Industrial Products and Machinery Development	E	1	4	3.0	-			70	30
ME4373	Aerodynamics	E	7/2	2/2	4.0	-			40	60
ME4433	Computational Fluid Dynamics	E	5/2	2/2	3.0	-			50	50
		Total			**46.0**	**0.0**	**15.0**	**0.0**		
Semester 8		**Specialization requirement**					**15.0**			
ME4203	Final Year Project [S7 & S8]	C	1	8	5.0	-	15.0	0.0	100	-
ME4840	Sports Performance Analysis	C	2	2	3.0				40	60
ME4860	Medical Robotics	C	3	2	4.0				40	60
ME4181	Intelligent Systems	C	5/2	2/2	3.0				40	60
ME4393	Advanced Manufacturing Engineering	E	2	2	3.0	-	-	-	40	60
ME4473	Computer Aided Engineering	E	2	4	4.0	-			60	40
ME4423	Energy Conservation	E	5/2	2/2	3.0	-			30	70
ME4383	Refrigeration and Air Conditioning	E	7/2	2/2	4.0	-			40	60
ME4673	Control Systems Design	E	5/2	2/2	3.0	-			50	50
ME4730	Engineering Decision Making and Risk Assessment	E	5/2	2/2	3.0	-			60	40
ME4073	Industrial Engineering	E	3	2	4.0	-			40	60
ME4211	Auditory and Visual Comfort	E	5/2	2/2	3.0	-			30	70
ME4663	Mould Design	E	2	2	3.0	-			40	60
ME4633	Automotive Engineering	E	7/2	2/2	4.0	-			40	60
		Total			**49**	**0**	**15.0**	**0.0**		
		Grand Total			212.0	6.0	**140.0**	**6.0**		

Total credit requirement for the Specialization	**146.0**
Faculty/Specialization Electives beyond the specialization requirements [refer faculty electives table]*	4.0
TOTAL CREDIT REQUIREMENT FOR GRADUATION	150.0

Service modules

Code	Module Name	Semeter	Time allocation [Hours/Week]		Credits		Offered to	Evaluation %	
			Lecture	Lab / Tute	GPA	NGPA		CA	WE
	Not offered								