

Intake:	2021 onwards		Specialization:	Mechanical Engineering						
Details of the Curriculum			Stream:	Aeronautical 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	-	15.0	0.0	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	-			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	-	21.0	0.0	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	-			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	-	20.0	0.0	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	-			30	70
MA2024	Calculus	C	2	-	2.0	-			30	70
EE2804	Applied Electricity	C	2	2	3.0	-			40	60
ME2210	Fundamentals of Aircraft Engineering & Aviation Regulation	C	5/2	2/2	3.0	-			30	70
ME2161	Fundamentals of Automotive Engineering	E	5/2	2/2	3.0	-	40	60		
CS2883	Object Oriented Programming for Mechanical Engineers	E	2	2	3.0	-	100	-		
			Total		26.0	0.0	20.0	0.0		
Semester 4			Specialization requirement				21.0			
ME2051	Mechanics of Machines II	C	2	2	3.0	-	21.0	0.0	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	-			30	70
MA3014	Applied Statistics	C	2	-	2.0	-			30	70
ME2230	Instrumentation and Automation Systems	C	2	2	3.0	-			50	50
ME2240	Aircraft Systems and Maintenance	C	5/2	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			
ME3211	Aircraft Design Project	C	-	8	4.0	-	23.0	0.0	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	-			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
ME3140	Avionic Systems & Human Factors	C	5/2	2/2	3.0	-	30	70		
			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	0.0	6.0		
Semester 6			Specialization requirement				10.0			
ME3902	Technical Communication for Engineering	C	-	4	2.0	-	8.0	0.0	100	-
ME4204	Design/ Research Project [S6, S7 & S8]	C	1	2	2.0	-			100	-
ME3910	Social/ Community Project	C	1	2	2.0	-			100	-

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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					18.0			
ME4204	Design/ Research Project [S6, S7 & S8]	C	1	6	4.0	-	18.0	0.0	100	-
MN3043	Business Economics and Financial Accounting	C	3	-	3.0	-			30	70
ME4720	Turbo Machinery and Aircraft Propulsion	C	7/2	2/2	4.0	-			40	60
ME4373	Aerodynamics	C	7/2	2/2	4.0	-			40	60
ME4433	Computational Fluid Dynamics	C	5/2	2/2	3.0	-	-	-	40	60
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 Product and Machinery Development	E	1	4	3.0	-			70	30
ME4830	Biomechanics	E	2	2	3.0	-			40	60
Total					45.0	0.0	18.0	0.0		
Semester 8		Specialization requirement					13.0			
ME4204	Design/ Research Project [S6, S7 & S8]	C	-	8	4.0	-	13.0	0.0	100	-
ME4151	Aircraft Structures Design and Analysis	C	5/2	2/2	3.0	-			40	60
ME4161	Flight Dynamics and Control	C	5/2	2/2	3.0	-			40	60
ME4021	Aircraft Materials and Manufacturing	C	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
ME4503	Robotics	E	3	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					51.0	0.0	13.0	0.0		
Grand Total					216.0	6.0	141.0	6.0		

Total credit requirement for the Specialization	147.0
Faculty/Specialization Electives beyond the specialization requirements [refer faculty electives table]*	3.0
TOTAL CREDIT REQUIREMENT FOR GRADUATION	150.0

Service modules									
Code	Module Name	Semester	Time allocation [Hours/Week]		Credits		Offered to	Evaluation %	
			Lecture	Lab / Tute	GPA	NGPA		CA	WE
	N/A								

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