Module Code	Module Name	Category	Lectures	Lab/ Assignments	Credits		N	orm	Evalu (%	ation %)
			hrs/week	hrs/weeks	GPA	NGPA	GPA	NGPA	CA	WE
Semester 1										
ME1032	Mechanics	С	2.0	3/4	2.0	-			20	80
CE1022	Fluid Mechanics	С	2.0	3/4	2.0	-]		20	80
CS1032	Programming Fundamentals	С	2.0	3/1	3.0	-			60	40
EE1012	Electrical Engineering	С	2.0	3/4	2.0	-]		20	80
EL1012	Language Skill Enhancement I	С	1.0	3/1	1.0	-]		20	80
MA1013	Mathematics	С	3.0	1/1	3.0	-]		20	80
MN1012	Engineering in Context	С	1.0	-	-	1.0]		30	70
MT1022	Properties of Materials	С	2.0	3/4	2.0	-	15.0	1.0	20	80
	·			Total for Sem	ester 1		15.0	1.0		
Semester 2										
ME1100	Mechanics of Materials I	С	1.5	3/2	2.0	-			30	70
ME1090	Engineering Drawing & Computer Aided Modelling	С	2.0	3/1	3.0	-			100	-
ME1052	Fundamentals of Engineering Thermodynamics	С	2.5	3/2	3.0	-			30	70
ME1070	Manufacturing Technology	С	1.0	3/1+3/2(A)	-	2.5			100	-
ME1900	Industrial Visits and Guest Lectures I	С	1.0	3/1	-	1.0			100	-
EL1022	Language Skill Enhancement II	С	-	3/1	1.0	-	1		30	70
EN1802	Basic Electronics	С	2.0	3/4	2.0	-	1		40	60
MA1023	Methods of Mathematics	С	3.0	1/1	3.0	-	1		30	70
MT1812	Engineering Materials	С	1.5	3/2	2.0	-	16.0	3.5	30	70

MN1030	Entrepreneurship Skill Development	0	0.5	3/2	-	1.0	0.0	0.0	70	30
				Total f	or Semest	er 2	16.0	3.5		
Module Code	Module Name	Category	Lectures	Lab/ Assignments	Cr	edits	N	orm	Eval on (uati %)
			hrs/week	hrs/weeks	GPA	NGPA	GPA	NGPA	CA	W E
Semester 3										
ME2010	Fluid Dynamics	С	2.5	3/2	3.0	-			30	70
ME2023	Manufacturing Engineering I	С	3.0	3/1	4.0	-			30	70
ME2040	Fundamentals of Mechatronics	С	1.0	3/1	2.0	-			30	70
ME2092	Mechanics of Machines I	С	3.5	3/2	4.0	-			30	70
EE2803	Applied Electricity	С	1.5	3/2	2.0	-			30	70
EN2852	Applied Electronics	С	1.5	3/2	2.0	-			40	60
MA2013	Differential Equations	С	2.0	-	2.0	-			30	70
MA2023	Calculus	С	2.0	-	2.0	-	21.0	0.0	30	70
CS2882	Object Oriented Programming Using C++	0	2.0	3/1	3.0	-			30	70
MN1030	Entrepreneurship Skill Development	0	0.5	3/2	-	1.0	0.0	0.0	70	30
				Total f	for Semest	er 3	21.0	0.0		

Module Code	Module Name	Category	Lectures	Lab/ Assignments	Cr	edits	N	orm	Eval on	luati (%)
			hrs/week	hrs/weeks	GPA	NGPA	GPA	NGPA	CA	W E
Semester 4										
ME2032	Thermodynamics of Heat Engines & Work Transfer Devices	С	3.5	3/2	4.0	-			30	70
ME2050	Mechanics of Machines II	C	2.5	3/2	3.0	-			30	70
ME2060	Mechanics of Materials II	С	3.5	3/2	4.0	-			30	70
ME2170	Manufacturing Engineering II	С	3.5	3/2	4.0	-			40	60
ME2080	Design of Machine Elements	С	2.0	3/1	3.0	-			40	60
ME2160	Introduction to Automotive Engineering	С	1.5	3/2	2.0	-			30	70
MA2033	Linear Algebra	С	2.0	-	2.0	-			30	70
ME2180	Social/Community Project	С	-	3/1	-	1.0	22.0	1.0	100	-
CH2802	Process Engineering	0	1.5	3/2	2.0	-			30	70
MA2053	Graph Theory	0	2.0	-	2.0	-]		30	70
MN2010	Entrepreneurial Leadership	0	1.5	3/2	2.0		0.0	0.0	50	50
				Total for Semester 4		22.0	1.0			

Module Code	Module Name	Category	Lectures	Lab/ Assignments	Credits		No	orm	Evaluation (%)	
			hrs/week	hrs/weeks	GPA	NGPA	GPA	NGPA	CA	WE
Semester 5										
ME3012	Control Systems & Instrumentation	С	3.5	3/2	4.0	-			30	70
ME3022	Fluid Power Systems & Machinery	С	3.5	3/2	4.0	-			30	70
ME3042	Production & Operations Management	С	2.5	2/2	3.0	-			40	60
ME3200	Machine Design Project	С	3.0	3/1	4.0	-]		100	-
MA3013	Applied Statistics	С	2.0	-	2.0	-			30	70
MA3023	Numerical Methods	С	2.0	-	2.0	-			30	70
MN3042	Business Economics and Financial Accounting	С	3.0	-	3.0	-	22.0	0.0	30	70
MN3010	Multidisciplinary Design Innovation and Venture Creation	0	1.5	3/2	2.0	-			50	50
MN3052	Industrial Management and Marketing	0	2.5	1.5	3.0	-	0.0	0.0	30	70
				Total j	for Semest	er 5	22.0	0.0		
		r		1		r	1	1		
ME3992	Industrial Training	С	-	-	-	6.0	0.0	6.0		
							1	1		
Semester 6										
ME3901	Project Methodology and Communication	С	1.5	3/2	-	2.0			100	-
ME4202	Design/Research Project**	С	-	-	2.0	-	2.0	2.0	100	-
DE2xxx	Humanities Elective I*	Е			2.0	-				
DE2xxx	Humanities Elective II*	Е			2.0	-	4.0	0.0		-
				Total J	for Semest	er 6	6.0	2.0		

Module Code	Module Name	Category	Lectures	Lab/ Assignments	Cr	Credits		orm	Evalu (9	uation %)
			hrs/week	hrs/weeks	GPA	NGPA	GPA	NGPA	CA	WE
Semester 7										
ME4202	Design/Research Project**	С	-	-	4.0	-			100	-
ME4903	Industrial Visits and Guest Lectures II	С	1.5	-	-	1.5	4.0	1.5	100	-
ME4210	Acoustics and Visual Comfort	Е	2.5	3/2	3.0				30	70
ME4242	Energy Technology & Environment	Е	2.5	3/2	3.0	-			30	70
ME4332	Computer Aided Design & Manufacture	Е	3.0	3/1	4.0	-			30	70
ME4342	Mechatronics Systems Engineering	Е	3.0	3/1	4.0	-			40	60
ME4382	Refrigeration & Air Conditioning	Е	3.5	3/2	4.0	-			40	60
ME4452	Industrial Project Management	Е	3.5	3/2	4.0	-			40	60
ME4462	Automation Systems	Е	2.5	3/2	3.0	-			40	60
ME4512	Industrial Products, Machinery & Equipment Design	Е	2.0	3/1	3.0	-			40	60
MA4023	Operational Research	Е	3.0	-	3.0	-	7.0	0.0	30	70
ME4310	Micro/Nano Electro Mechanical Systems and Nanotechnology	Е	2.0	3/1	3.0	-			40	60
ME4372	Aerodynamics	Е	3.5	3/2	4.0	-			30	70
ME 4710	Aircraft Technology	Е	2.5	3/2	3.0	-			30	70
ME4620	Biomedical Engineering Applications	Е	2.5	3/2	3.0	-			30	70
ME4642	Advanced Dynamics & Vibrations	Е	2.5	3/2	3.0	-			30	70
MA4013	Linear Models & Multivariate Statistics	Е	3.0	-	3.0	-			30	70
MA4033	Time Series & Stochastic Process	Е	3.0	-	3.0	-			30	70
MN4062	Organization Behaviour & Management	Е	2.0	-	2.0	-			30	70
MN4122	Human Resource Management and Industrial Relations	Е	2.0	-	2.0	-	5.0	0.0	30	70
MN3020	Entrepreneurship Business Basics	0	2.0	3/1	3.0	-			50	50
MN4030	Strategic Enterprise Management	0	1.5	3/2	2.0	-	0.0	0.0	40	60

Curriculum of B.Sc. Engineering Degree Honours Programme

Mechanical Engineering Specialization

Department of Mechanical Engineering

MN4042	Technology Management	0	2.0	-	2.0	-			30	70
				Total for	r Semest	er 7	16.0	1.5		

Module Code	Module Name	Category	Lectures	Lab/ Assignments	Cr	Credits		orm	Evalu (%	ation 6)
			hrs/week	hrs/weeks	GPA	NGPA	GPA	NGPA	CA	WE
Semester 8										
ME4072	Industrial Engineering	C	3.5	3/2	4.0	-			30	70
ME4202	Design/Research Project**	C	-	-	4.0	-	8.0	0.0	100	-
ME4392	Advanced Aspects of Manufacturing	Е	3.0	-	3.0	-			30	70
ME4422	Energy Conservation	Е	2.5	3/2	3.0	-			40	60
ME4442	Heat and Mass Transfer	Е	2.5	3/2	3.0	-			30	70
ME4472	Computer Aided Engineering	Е	2.5	3/2	3.0	-			30	70
ME4483	Logistics and Supply Chain Systems	Е	2.5	3/2	3.0	-			30	70
ME4492	Advanced Automation Systems	Е	2.5	3/2	3.0	-			30	70
ME4502	Robotics Technology	Е	2.5	3/2	3.0	-			40	60
ME4532	Industrial Ergonomics	Е	2.5	3/2	3.0	-	6.0	0.0	40	60
ME4432	Computational Fluid Dynamics	Е	2.5	3/2	3.0	-			50	50
ME4632	Automotive Engineering	Е	3.5	3/2	4.0	-			30	70
ME4652	Marine Engineering & Naval Architecture	Е	3.5	3/2	4.0	-			30	70
ME4662	Die and Mould Design	Е	2.5	3/2	3.0	-			30	70
ME4672	Control Systems Design	Е	2.5	3/2	3.0	-			30	70
MA4043	Neural Network and Fuzzy Logic	Е	3.0	-	3.0	-			30	70
MN4022	Engineering Economics	Е	2.0	-	2.0	-	3.0	0.0	30	70
MN4072	Small Business Management Entrepreneurship	0	2.0	_	2.0	-			30	70
MN4010	Business Plan Development	0	1.5	3/2	2.0	-			70	30
MN4170	Global Entrepreneurship	0	1.5	3/2	2.0	-			40	60
				Total for	· Semest	er 8	17.0	0.0		

		Total fo	or the prog	amme	135.0	15.0	
					150.0		

*Compulsory elective modules selected from a basket

**Module continued in three semesters:6, 7 and 8 and the results are counted at the end of Semester 08 only

There are five focus areas introduced from 13 batch onwards and the following elective modules becomes compulsory for each focus area as mentioned in the table below.

Focus area	Compulsory Modules for focus areas to	be selected from Elective Modules
	Semester 07	Semester 08
Energy Engineering	ME4242 and ME4382	ME4422 and ME4442
Building Services Engineering	ME4210 and ME4382	ME4422 and ME4442
Mechatronics and Automation Engineering	ME4462 and ME4342	ME4492 and ME4502
Industrial Engineering	ME4452 and MA4022	ME4483 and ME4532
Product Design and Manufacturing Engineering	ME4512 and ME4332	ME4392 and ME4472

Compulsory Modules for Focus Area

In Semester 07, there is a set of 9 elective modules from which the students have to take 7 credits. Those modules are as follows. Minimum 5 credits have to be obtained from other set of electives.

Semester 07						
Module code	Module name					
ME4512	Industrial Products, Machinery & Equipment Design					
ME4332	Computer Aided Design & Manufacture					
ME4242	Energy Technology & Environment					
ME4382	Refrigeration & Air Conditioning					
ME4210	Acoustics and visual comfort					

ME4462	Automation Systems
ME4342	Mechatronics Systems Engineering
ME4452	Industrial Project Management
MA4022	Operational Research

In Semester 08, there is a set of 8 elective modules from which the students have to take 6 credits. Those modules are as follows. Minimum 3 credits have to be obtained from other set of electives.

	Semester 08				
Module code	Module name				
ME4392	Advanced Aspects of Manufacturing				
ME4472	Computer Aided Engineering				
ME4483	Logistics and Supply Chain Systems				
ME4532	Industrial Ergonomics				
ME4422	Energy Conservation				
ME4442	Heat and Mass Transfer				
ME4492	Advanced Automation System				
ME4502	Robotics Technology				

Modules offered for other fields of specialisation

Semester 02	
ME1812	Basic Thermal Sciences (CE: 140)
ME1802	Introduction to Manufacturing Engineering (EE:110, TT:75)
ME1090	Engineering Drawing and Computer Aided Modeling (MT:56, ER:59, CH:90)
Semester 03	
ME1822	Basic Engineering Thermodynamics (ICE:25,CSE:100,MT: 50, TT:75)

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ME1100	Mechanics of Materials I (EE:110, MT:56)
Semester 04	
ME1090	Introduction to Manufacturing Engineering (CSE:100,ICE:25)
ME2842	Basic Thermal Science and Applications (EE:110)
ME2850	Fundamentals of Machine Element Design (MT: 56, TT: 75)
ME2832	Mechanics of Machines (MT: 56)
Semester 05	
ME3812	Machine Design (MT: 56)
ME3012	Control Systems and Instrumentation (MT: Elective)