

Semester III

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121301ME	Engineering Mathematics III	ES	3	2	-	-	-	40	60	4	100
070121302ME	Strength of Materials	ID	4	-	-	-	-	40	60	4	100
070121303ME	Applied Thermo Dynamics	C	4	-	-	-	-	40	60	4	100
070121304ME	Measurement and Metrology	C	3	-	-	-	-	30	45	3	75
070121305ME	Theory of Machines-I	C	4	-	-	-	-	40	60	4	100
070121306ME	Strength of Materials Lab	ID	-	-	2	10	15	-	-	1	25
070121307ME	Applied Thermodynamics Lab	C	-	-	2	10	15	-	-	1	25
070121308ME	Measurement and Metrology Lab	C	-	-	2	10	15	-	-	1	25
070121309ME	Theory of Machines-I Lab	C	-	-	2	10	15	-	-	1	25
070121310ME	Manufacturing Practices Lab	C	-	-	2	10	15	-	-	1	25
070121311ME	Material Science	C	3	-	-	-	-	30	45	3	75
		Total	21	2	10	50	75	220	330	27	675
070121312ME	*Integrated Disaster Management	GP	-	-	-	-	-	-	-	1	-

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self study/assignments.

Semester IV

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121401ME	Fluid Mechanics	ID	3	-	-	-	-	30	45	3	75
070121402ME	Machine Design – I	C	3	-	-	-	-	30	45	3	75
070121403 ME	Heat Transfer	C	3	2	-	-	-	40	60	4	100
070121404 ME	Manufacturing Technology	C	3	-	-	-	-	30	45	3	75
070121405ME	Theory of Machines –II	C	3	-	-	-	-	30	45	3	75
070121406ME	Fluid Mechanics Lab	ID	-	-	2	10	15	-	-	1	25
070121407ME	Machine Design – I Lab	C	-	-	2	10	15	-	-	1	25
070121408ME	Heat Transfer Lab	C	-	-	2	10	15	-	-	1	25
070121409ME	Manufacturing Technology Lab	C	-	-	2	10	15	-	-	1	25
070121410ME	Theory of Machines –II Lab	C	-	-	2	10	15	-	-	1	25
070121411ME	Machine Drawing and Computer Graphics Lab	C	-	-	4	20	30	-	-	2	50
		Total	15	2	14	70	105	160	240	23	575
070121412ME	Global Immersion Programme	C	0	0	0	0	0	0	325	13	325

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self study/assignments.

Semester V

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121501ME	I. C. Engines	C	3	-	-	-	-	30	45	3	75
070121502ME	Production Management	C	3	-	-	-	-	30	45	3	75
070121503ME	Machine Design – II	C	3	2	-	-	-	40	60	4	100
070121504ME	CAD & CAM	C	4	-	-	-	-	40	60	4	100
070121505ME	Fluid Machinery	C	4	-	-	-	-	40	60	4	100
070121506ME	Mechatronics	ID	3	-	-	-	-	30	45	3	75
070121507ME	IC Engines Lab	C	-	-	2	10	15	-	-	1	25
070121508ME	Machine Design – II Lab	C	-	-	2	10	15	-	-	1	25
070121509ME	Fluid Machinery Lab	C	-	-	2	10	15	-	-	1	25
070121510ME	CAD & CAM Lab	C	-	-	2	10	15	-	-	1	25
070121511ME	Mechatronics Lab	ID	-	-	2	10	15	-	-	1	25
070121512ME	Industrial Management	GP	3	-	-	-	-	30	45	3	75
		Total	23	2	10	50	75	240	360	29	725
070121513ME	Global Immersion programme	C	-	-	-	-	-	-	375	15	375
070121514ME	Project	C	-	-	-	-	-	-	75	3	75

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self study/assignments.

Semester VI

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
			L	T	Lab	Practical	CA	ESE			
Group A						Int	Ext				
070121601ME	Internship (6 Months)	PD	-	-	-	-	-	400	-	16	400
OR											
070121626ME	Global Immersion Programme	C	-	-	-	-	-	-	-	-	400
070121602ME	Seminar	C	-	-	-	-	-	100	-	4	100
		Total	-	-	-	-	-	500	-	20	500
070121627ME	Global Immersion Programme	C	-	-	-	-	-	425	-	17	425
070121628ME	Global Immersion Programme	C	-	-	-	-	-	475	-	19	475
070121629ME	Global Immersion Programme	C	-	-	-	-	-	300	-	12	300
070121630ME	Mini Project	C	-	-	-	-	-	100	-	4	100
Group B	OR										
070121603ME	Project	PD	-	-	8	-	-	100	-	4	100
070121604ME	Internship(6-8 Weeks)	PD	-	-	8	-	-	100	-	4	100
070121605-22ME	Liberal Arts	GP	2	-	-	-	-	50	-	2	50
070121623ME	Service Learning	GP	2	-	-	-	-	50	-	2	50
070121624ME	Non Conventional Production Processes	C	4	-	-	-	-	40	60	4	100
070121625ME	Pressure Vessel Design	C	4	-	-	-	-	40	60	4	100
		Total	12	-	16	-	-	380	120	20	500

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self study/assignments.

Liberal Arts: (Select any one)

Sr.No	Course Code	Title of the Course
1	070121605ME	Technical Writing
2	070121606ME	Creative Writing
3	070121607ME	Principles of Economics
4	070121608ME	Intellectual Property Rights
5	070121609ME	Cyber Law

6	070121610ME	Creativity & Innovations
7	070121611ME	Society & Science
8	070121612ME	Sustainability Studies
9	070121613ME	Environmental Awareness: Only One Earth
10	070121614ME	Impact Of Science & Technology on Human Civilization
11	070121615ME	Woman & Gender Studies
12	070121616ME	Organizational Behavior
13	070121617ME	Quantitative Reasoning :Mathematics
14	070121618ME	Photography
15	070121619ME	German
16	070121620ME	French
17	070121621ME	Chinese
18	070121622ME	Philosophy

Semester VII

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121701ME	Operations Research	C	3	-	-	-	-	30	45	3	75
070121702ME	Total Quality Management	GP	3	-	-	-	-	30	45	3	75
070121703ME	Numerical Methods in Engineering	C	3	-	-	-	-	30	45	3	75
070121704ME	Mechanical System Design	C	4	-	-	-	-	40	60	4	100
07012170508ME	Elective – I	C	4	-	-	-	-	40	60	4	100
070121709ME	Mechanical Vibration	C	3	2	-	-	-	40	60	4	100
070121710ME	Mechanical System Design Lab	C	-	-	2	10	15	-	-	1	25
070121711-22 ME	Free Elective	ID.	3	-	-	-	-	30	45	3	75
070121723-26ME	Elective – I Lab	C	-	-	2	10	15	-	-	1	25
070121727ME	Mechanical Vibration Lab	C	-	-	2	10	15	-	-	1	25
070121728ME	Numerical Methods in Engineering Lab		-	-	2	10	15	-	-	1	25
		Total	23	2	8	40	60	240	360	28	700
070121729ME	Global Immersion Programme	C	-	-	-	-	-	-	475	19	475
070121731ME	Mini Project	C	-	-	-	-	-	25	-	1	25
OR											
070121730ME	Global Immersion Programme	C	-	-	-	-	-	-	625	25	625
070121732ME	Global Immersion Programme	C	!	!	!	!	!	!	500	20	500

Students attending Global Immersion Programme(070121729ME) should opt Mini Project(070121731ME)

Free Elective (Choose Any One)		
Sr.No	Course Code	Title of the Course
1	070121711ME	Geographic Information Systems
2	070121712ME	Earthquake Engineering
3	070121713ME	JAVA
4	070121714ME	Open Source Technologies
5	070121715ME	Data Base Management System
6	070121716ME	MATLAB
7	070121717ME	Printed Circuit Board (PCB) Design
8	070121718ME	Fundamentals of Automotive Technology
9	070121719ME	Six Sigma
10	070121720ME	Nano Technology
11	070121721ME	Smart Material Science
12	070121722ME	Introduction to Statistical Product and Service Solutions (SPSS)

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self study/assignments.

Semester VIII

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
			L	T	Lab	Practical		CA			ESE
						Int	Ext				
070121801ME	Project	C	-	-	8	30	45	25	-	4	100
070121802ME	Finite Element Methods	C	3	2	-	-	-	40	60	4	100
070121803ME	Refrigeration & Air Conditioning	C	3	2	-	-	-	40	60	4	100
070121804ME	Industrial Automation and Robotics	C	4	-	-	-	-	40	60	4	100
070121805ME	Entrepreneurship	ID	2	-	-	-	-	50	-	2	50
070121806-09ME	Elective –II	C	4	-	-	-	-	40	60	4	100
070121810ME	Refrigeration & Air Conditioning Lab	C	-	-	2	10	15	-	-	1	25
070121811ME	Industrial Automation and Robotics Lab	C	-	-	2	10	15	-	-	1	25
070121812ME	Finite Element Methods Lab	C	-	-	2	10	15	-	-	1	25
		Total	16	4	14	60	90	235	240	25	625

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self study/assignments.

Electives for Semester VII (Choose any one)-Elective I											
Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
			L	T	Lab	Practical		CA			ESE
						Int	Ext				
070121705ME	Non-conventional Energy Sources	C	4	-	-	-	0	40	60	4	100
070121706ME	Tribology	C	4	-	-	-	0	40	60	4	100
070121707ME	Automobile Engineering	C	4	-	-	-	0	40	60	4	100
070121708ME	Gas Turbine & Jet Propulsion	C	4	-	-	-	0	40	60	4	100
070121723ME	Non-conventional Energy Sources Lab	C	-	-	2	10	15	-	-	1	25
070121724ME	Tribology Lab	C	-	-	2	10	15	-	-	1	25
070121725ME	Automobile Engineering Lab	C	-	-	2	10	15	-	-	1	25
070121726ME	Gas Turbine & Jet Propulsion Lab	C	-	-	2	10	15	-	-	1	25

Electives for Semester VIII (Choose any one)-Elective II											
Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
			L	T	Lab	Practical		CA			ESE
						Int	Ext				
070121806ME	Power Plant Engineering	C	4	-	-	-	-	40	60	4	100
070121807ME	Computational Fluid Dynamics	C	4	-	-	-	-	40	60	4	100
070121808ME	Industrial Fluid Power	C	4	-	-	-	-	40	60	4	100
070121809ME	Machine Tool Design	C	4	-	-	-	-	40	60	4	100

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self study/assignments.

L- Lecture , T-Tutorial, HA-Home Assignment CA- Continuous Assessment, ESE- End Semester Examination

C - Core Course

Practical, CA, ESE are separate heads of Passing

ES - Engineering Science Course

Int- Internal (Practical)

GP - General Proficiency Course

Ext- External (Practical)

ID - Inter Disciplinary Course

Practical external examination may be conducted by alternate internal faculty

PD - Professional Development Course

*Integrated Disaster Management course is mandatory for the award of degree.