

Semester III											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121301 ME	Engineering Mathematics III	ES	3	2	0	0	0	40	60	4	100
070121302 ME	Strength of Materials	ID	4	0	0	0	0	40	60	4	100
070121303 ME	Applied Thermodynamics	C	4	0	0	0	0	40	60	4	100
070121304 ME	Measurement and Metrology	C	3	0	0	0	0	30	45	3	75
070121305 ME	Theory of Machines-I	C	4	0	0	0	0	40	60	4	100
070121306 ME	Integrated Disaster Management #	GP	3#	0	0	0	0	#75	0	3#	75#
070121307 ME	Strength of materials Lab (Int. Dept.)	ID	0	0	2	10	15	0	0	1	25
070121308 ME	Applied Thermodynamics Lab	C	0	0	2	10	15	0	0	1	25
070121309 ME	Measurement and Metrology Lab	C	0	0	2	10	15	0	0	1	25
070121310 ME	Theory of Machines-I Lab	C	0	0	2	10	15	0	0	1	25
070121311 ME	Manufacturing Practices Lab	C	0	0	2	10	15	0	0	1	25
070121312 ME	Material Science	C	3	0	0	0	0	30	45	3	75
		Total	21	2	10	50	75	220	330	27	675

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

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

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

Semester V											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121501 ME	I. C. Engines	C	3	0	0	0	0	30	45	3	75
070121502 ME	Production Management	C	3	0	0	0	0	30	45	3	75
070121503 ME	Machine Design – II	C	3	2	0	0	0	40	60	4	100
070121504 ME	CAD & CAM	C	4	0	0	0	0	40	60	4	100
070121505 ME	Fluid Machinery	C	4	0	0	0	0	40	60	4	100
070121506 ME	Mechatronics	ID	3	0	0	0	0	30	45	3	75
070121507 ME	IC Engines Lab	C	0	0	2	10	15	0	0	1	25
070121508 ME	Machine Design – II Lab	C	0	0	2	10	15	0	0	1	25
070121509 ME	Fluid Machinery Lab	C	0	0	2	10	15	0	0	1	25
070121510 ME	CAD & CAM Lab	C	0	0	2	10	15	0	0	1	25
070121511 ME	Mechatronics Lab	ID	0	0	2	10	15	0	0	1	25
070121512 ME	Industrial Management	GP	3	0	0	0	0	30	45	3	75
		Total	23	2	10	50	75	240	360	29*	725
070121513 ME	Global Immersion Programme	C	0	0	0	0	0	0	450	18	450
070121514 ME	Global Immersion Programme	C	0	0	0	0	0	0	425	17	425
070121515 ME	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.

Note: * Students will opt for subjects worth 16 credit points out of 29 credit points at SIU.

Semester VI (Project Semester)											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121601 ME	Internship (6 months)	PD	-	-	-	-	-	400	-	16	400
OR											

070121627 ME	Global Immersion Programme	C	0	0	0	0	0	0	-	-	-
070121602 ME	Seminar		-	-	-	-	-	100	-	4	100
		Total	0	0	0	-	-	500	-	20	500
Group B	OR										
070121603 ME	Project	PD	0	0	8	0	0	100	0	4	100
070121604 ME	Internship(6-8 Weeks)	PD	0	0	8	0	0	100	0	4	100
070121605- 22ME	Liberal Arts	GP	2	0	0	0	0	50	0	2	50
070121623 ME	Service Learning	GP	2	0	0	0	0	50	0	2	50
070121624 ME	Non Conventional Production Processes	C	4	0	0	0	0	40	60	4	100
070121625 ME	Pressure Vessel Design	C	4	0	0	0	0	40	60	4	100
		Total	12	0	16	0	0	380	120	20	500
070121626 ME	Global Immersion Programme	C	0	0	0	0	0	0	400	16	400

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	Subject Name
1	070121605ME	Technical Writing
2	070121606ME	Creative Writing
3	070121607ME	Principles Of Economics
4	070121608ME	Intellectual Property Rights(IPR)
5	070121609ME	Cyber Law
6	070121610ME	Creativity and Innovations
7	070121611ME	Society and Science
8	070121612ME	Sustainability Studies
9	070121613ME	Environmental Awareness: Only One Earth
10	070121614ME	Impact Of Science and Technology On Human Civilization
11	070121615ME	Woman and 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											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121701 ME	Operations Research	C	3	0	0	0	0	30	45	3	75
070121702 ME	Total Quality Management	GP	3	0	0	0	0	30	45	3	75
070121703 ME	Numerical Methods in Engineering	C	3	0	0	0	0	30	45	3	75
070121704 ME	Mechanical System Design	C	4	0	0	0	0	40	60	4	100
070121705-08 ME	Elective – I	C	4	0	0	0	0	40	60	4	100
070121709 ME	Mechanical Vibration	C	3	2	0	0	0	40	60	4	100
070121710 ME	Mechanical System Design Lab	C	0	0	2	10	15	0	0	1	25
070121711-22 ME	Free Elective	ID.	3	0	0	0	0	30	45	3	75
070121723-26 ME	Elective – I Lab	C	0	0	2	10	15	0	0	1	25
070121727 ME	Mechanical Vibration Lab	C	0	0	2	10	15	0	0	1	25
070121728 ME	Numerical Methods in Engineering Lab	C	0	0	2	10	15	0	0	1	25
		Total	23	2	8	40	60	210	390	28	700
070121729 ME	Global immersion Programme	C	0	0	0	0	0	0	500	20	500
070121730 ME	Global immersion Programme	C	0	0	0	0	0	0	375	15	375

Free Elective (Choose Any One)

Sr.No	Course Code	Course Name
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 Materials

12	070121722ME	Introduction to Statistical Product and Service Solutions (SPSS)
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Semester VIII												
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks	
			L	T	Lab	Practical		CA	ESE			
						Int	Ext					
070121801 ME	Project	C	0	0	8	30	45	25	0	4	100	
070121802 ME	Finite Element Methods	C	3	2	0	0	0	40	60	4	100	
070121803 ME	Refrigeration & Air conditioning	C	3	2	0	0	0	40	60	4	100	
070121804 ME	Industrial Automation and Robotics	C	4	0	0	0	0	40	60	4	100	
070121805 ME	Entrepreneurship	ID	2	0	0	0	0	50	0	2	50	
070121806 -09ME	Elective –II	C	4	0	0	0	0	40	60	4	100	
070121810 ME	Refrigeration & Air conditioning Lab	C	0	0	2	10	15	0	0	1	25	
070121811 ME	Industrial Automation and Robotics Lab	C	0	0	2	10	15	0	0	1	25	
070121812 ME	Finite Element Methods Lab	C	0	0	2	10	15	0	0	1	25	
Total			16	4	14	60	90	235	240	25	625	
Total										152		

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)											
Subject Code	Elective – I	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121705 ME	Non-conventional Energy Sources	C	4	0	0	0	0	40	60	4	100
070121706 ME	Tribology	C	4	0	0	0	0	40	60	4	100

070121707 ME	Automobile Engineering	C	4	0	0	0	0	40	60	4	100
070121708 ME	Gas Turbine & Jet Propulsion	C	4	0	0	0	0	40	60	4	100
070121723 ME	Non-conventional Energy Sources Lab	C	0	0	2	10	15	0	0	1	25
070121724 ME	Tribology Lab	C	0	0	2	10	15	0	0	1	25
070121725 ME	Automobile Engineering Lab	C	0	0	2	10	15	0	0	1	25
070121726 ME	Gas Turbine & Jet Propulsion Lab	C	0	0	2	10	15	0	0	1	25

Electives for Semester VIII (Choose any one)											
Subject Code	Elective – II	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121806 ME	Power Plant Engineering	C	4	0	0	0	0	40	60	4	100
070121807 ME	Computational Fluid Dynamics	C	4	0	0	0	0	40	60	4	100
070121808 ME	Industrial Fluid Power	C	4	0	0	0	0	40	60	4	100
070121809 ME	Machine Tool Design	C	4	0	0	0	0	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 Subject Practical, CA, ESE are separate heads of Passing

ES - Engineering Science Subject Int- Internal (Practical)

GP - General Proficiency Subject Ext- External (Practical)

ID - Inter Disciplinary Subject Practical external examination may be conducted by alternate internal faculty

PD - Professional Development Subject # - Credits Over & above 200