ACADEMIC CURRICULA

UNDERGRADUATE INTEGRATED POST GRADUATE DEGREE PROGRAMMES

(With exit option of Diploma)

(Choice Based Flexible Credit System)

Regulations 2021

Volume - 1

(Revised on July 2024)



SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University u/s 3 of UGC Act, 1956)
Kattankulathur, Chengalpattu District 603203,
Tamil Nadu, India

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY Kattankulathur, Chengalpattu District 603203, Tamil Nadu, India

40. B.Tech. in Mechanical Engineering with Specialization in Artificial Intelligence and Machine Learning

40. (a) Mission of the Department

	To impart quality education to produce eminent mechanical engineers
	To establish Centers of Research Excellence to inculcate research acumen to faculty and students on the emerging thrust areas of mechanical engineering.
Mission Stmt – 3	To inculcate progressive education and intricate facts through cognitive training programs to the faculty and students using state- of-art facilities.

40. (b) Program Educational Objectives (PEO)

PEO – 1	Prac <mark>tice mechanical en</mark> gineering in different disciplines towards system design, realization, manufacturing, and industrial automation
PEO – 2	Enhance professional practice to meet the global standards with ethical and social responsibility
PEO – 3	Solve industrial, social, and environmental problems with appropriate techniques and tools
PEO – 4	Work in large cross-functional teams and pursue life-long learning

40. (c) Mission of the Department to Program Educational Objectives (PEO) Mapping

	Mission Stmt 1		Mission Stmt 2		Mission Stmt 3	
PEO - 1	3	28.54	3	100	3	
PEO - 2	2	4	2	Picial.	3	
PEO - 3	3	200	3	177.50	3	
PEO - 4	2	200	3	4 J. J.	3	T Z

^{3 –} High Correlation, 2 – Medium Correlation, 1 – Low Correlation

40. (d) Mapping Program Educational Objectives (PEO) to Program Outcomes (PO)

			- 17	J. T. J.	Pro	gram Ou	tcomes (PO)	FIN	34			Prog	ram Spe	ecific
	1	2	3	4	5	6	7	8	9	10	11	12	Outo	comes (P	SO)
2000	Engineering Knowledge	Problem Analysis	Design/development of solutions	Conduct investigations of complex problems	Modern Tool Usage	The engineer and society	Environment & Sustainability	Ethics	Individual & Team Work	Communication	Project Mgt. & Finance	Life Long Learning	PSO-1	PSO-2	PSO-3
PEO - 1	3	3	2	3	3	7.3	ĿJ	$5A_1$	υ.,	F	ΛT	1	3	3	-
PEO - 2	7-	1	3		-	3	- 3	3	-	. بلات	The	3		7-	-
PEO - 3	3	3	3	3	3	3	3	2		1	2	3	3	3	-
PEO - 4	-	3	3	2	3	-	-	-	3	3	3	3	3	3	-

^{3 –} High Correlation, 2 – Medium Correlation, 1 – Low Correlation

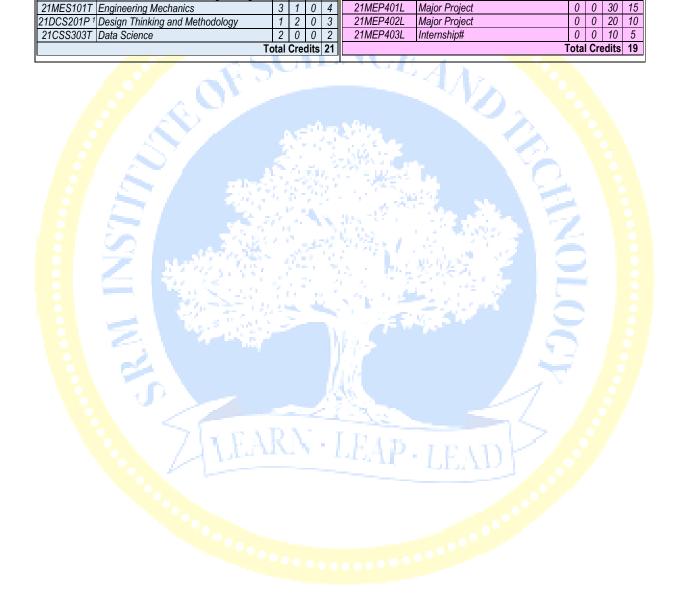
PSO – Program Specific Outcomes (PSO)

PSO - 1	Ability to analyse and implement Al techniques in mechanical engineering
PSO - 2	Ability to design and develop the contemporary programmable interfaces in mechanical systems

40. (e) Program Structure: B.Tech. in Mechanical Engineering with Specialization in Artificial Intelligence and Machine Learning Humanities & Social Sciences Basic Science Courses (B)

Course Code	L 3 3 3 3 3 olex Analysis 3 ory, and Optics 3 ue 3 Total	W -	ours Veel T 1 0 1 1	P 0 2 0 0 2 0 0	C 4 5 2 4 5 4 4
Code Title 21LEH101T Communicative English 2 1 0 3 21LEH102T Chinese 21LEH103T French 21LEH104T German 21LEH105T Japanese 21LEH106T Korean 21LEH107T Spanish 21LEH108T Russian 21GNH101J Philosophy of Engineering 21GNH101J Philosophy of Engineering 21GNH101J Philosophy of Engineering 21GNH401T Behavioral Psychology	Delex Analysis 3 3 3 3 3 3 3 3 Total	33 22 33 33 33 33 33 33 33 33 33 33 33 3	T 1 1 0 1 1	P 0 2 0 0 2	4 5 2 4 5
21LEH101T Communicative English 2 1 0 3 21MAB101T Calculus and Linear Algebra 21LEH102T Chinese 21LEH103T French 21LEH104T German 21LEH105T Japanese 2 1 0 3 21MAB102T Advanced Calculus and Comparison of Course	3 2 2 2 2 2 3 3 3 3 3 3 Total	33 22 33 33 33 33 33 33 33 33 33 33 33 3	1 0 1 1	0 2 0 0 2	4 5 2 4 5
21LEH102T Chinese 21LEH103T French 21LEH104T German 21LEH105T Japanese 21LEH106T Korean 21LEH107T Spanish 21LEH108T Russian 21GNH101J Philosophy of Engineering 21GNH401T Behavioral Psychology Open Elective Courses (O) (Any 3 Course) Course Course 21CYB101J Chemistry 21BTB103T Biology 21MAB102T Advanced Calculus and Comp 21PyB101J Physics: Electromagnetic The Quantum Mechanics, Waves and Boundary Valled Course (Course Course Course Course Course Course Course Course Title Course Title Course Title Course Title Course Title Course Course Course Title Course Course Course Title Course Course Title Course Course Course Course Title Course Course Course Title Course Course Course Course Course Course Course Title Course Course Course Course Course Course Course Course Course Title Course	3 2 2 2 2 2 3 3 3 3 3 3 Total	33 22 33 33 33 33 33 33 33 33 33 33 33 3	1 1 1	2 0 0 2	5 2 4 5
21LEH103T French	olex Analysis 3 ory, and Optics 3 ue 3 Total	33 33 33 33 33 33 33 33 33 33 33 33 33	0 1 1	0 0 2 0	2 4 5
21LEH104T German 2 1 0 3 21LEH105T Japanese 2 1 0 3 21LEH106T Korean 21LEH107T Spanish 21LEH108T Russian 21GNH101J Philosophy of Engineering 1 0 2 2 21GNH401T Behavioral Psychology 2 1 0 3 Total Credits 13	olex Analysis 3 ory, and Optics 3 ue 3 Total	3 3 3	1 1 1	0 2 0	454
2 1 0 3 21PYB101J Physics: Electromagnetic The Quantum Mechanics, Waves of	ory, 3 and Optics 3 lue 3 Total	3 3	1	0	5
21LEH106T Korean	and Optics 3 lue 3 3 Total	3	1	0	4
21LEH1051 Korean	Jue 3 3 3 Total	3		_	·
21LEH108T Russian 21GNH101J Philosophy of Engineering 21DH209T Social Engineering 2 0 0 2 21GNH401T Behavioral Psychology 2 1 0 3 Total Credits 13 Open Elective Courses (O) (Any 3 Course) Course	3 3 3 Total	3		_	·
21GNH101J Philosophy of Engineering 1 0 2 2 21MAB202T Numerical Methods 21PDH209T Social Engineering 2 0 0 2 21MAB301T Probability and Statistics 21GNH401T Behavioral Psychology 2 1 0 3 3 3 3 3 3 3 3 3	Total	3	1		4
2 0 0 2 2 21MAB301T Probability and Statistics	Total	3		0	4
21GNH401T Behavioral Psychology 2 1 0 3 Total Credits 13 Open Elective Courses (O) (Any 3 Course) Course Course Course Title	Total		1	0	4
Total Credits 13 Open Elective Courses (O) (Any 3 Course) Course		. 1	•	•	
Open Elective Courses (O) (Any 3 Course) Course Course Course Course Course Course Title		ווע)IEC	มเร	JZ
(Any 3 Course) Course Course Course Course Course Course Course					
Course Course Course Title	; (M)				
Course Hours/ Code Title			ours		
		W	Vee		
Code Title Week	L	L	Τ	Р	С
L I P C 21PDM101L 1 Professional Skills and Practi			0	2	
21MEO101T Fundamentals of Composite Materials 3 0 0 3 21PDM102L 1 General Aptitude	0	_	0	2	
21MEO102T Reverse Engineering and 3D Printing 3 0 0 3 21PDM201L 1 Verbal Reasoning	0		0	2	n
21MEO103T Fundamentals of Biomechanics 3 0 0 3 21PDM202L 1 Critical and Creative Thinking		-	0	2	ľ
21MEO104T TQM and Reliability Engineering 3 0 0 3 21PDM301L 1 Analytical and Logical Thinkii			0	2	
21MEO105T Occupational Safety and Disaster 3 0 0 3 21PDM302L 1 Employability Skills and Prac		_	0	2	
Management 21CYM101T 1 Environmental Science	1	-	0	0	0
21MEO106T Introduction to Robotics 3 0 0 3 21LEM101T 1 Constitution of India	1	_	0	0	0
21MEO107T Fundamentals of Nano Engineering 3 0 0 3 21LEM102T Universal Human Values – Irr		_	0	0	0
21MEO108T Computer Numerical Control 3 0 0 3 21LEM201T Professional Ethics	1	1	0	0	0
Programming and Operation Universal Human Values-II:					
21MEO109T Resource Management Techniques 3 0 0 3 21LEM202T 1 Understanding Harmony and 21MEO110T Energy Systems for Sustainable Buildings 3 0 0 3 Human Conduct	Ethical 2	2	1	0	3
Trainer Conduct					Ļ
ZTELWOOTT Malan ALL OIT		1	0	0	0
21MEO 1721 A. II. II. III. III. III. III. III. II		1	0	0	0
CANTO A COLOR OF THE ANALYSIS OF THE STATE O	sing Yoga				
24MEQ44AT Color Engrave for Cociotal Applications 2 0 0 2	0	0	0	2	0
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21MEO115T Introduction to Drones 3 0 0 3 21GNM104L National Sports Organization		_			-
Total Ground 30	Total	ıl (Cred	lits	03
Professional Core Cou	rses (C)				
Course Course			ours		
Professional Elective Courses (E)		W	Vee		
(Arity 3 Courses)	L	-	T	Р	С
Course Hours/ 21MEC201T Engineering Thermodynamic			0	0	3
Code Title Week 21MEC2021 Mechanics of Solids	3	_	1	0	4
L T P C 21MEC203T Engineering Materials and M			0	0	3
21MEE351J IoT Systems Design 2 0 2 3 21MEC204T Manufacturing Processes ar		3	0	0	3
21MEE352J Programming for Machine Learning 2 0 2 3 21MEC201L 1 Manufacturing Processes ar	ad Metrology 0)	0	2	1
21MEE3331 Mathematics for Machine Learning 3 0 0 3 Laboratory		1	0	0	4
21MEE354T Soft Computing Techniques and 3 0 0 3 21MEC202L Material Testing Laboratory	0		0	2	1
Applications ZTCSC2061 Artificial Intelligence	3		0	0	3
21MEE355T Artificial Neural Network 3 0 0 3 21MEC205T 2 Fluid Mechanics and Machine Machine Diagnostics and Condition 2 0 0 3 21MEC206T Kinematics and Dynamics of			0	0	3
21MEE356T Machine Diagnostics and Condition 3 0 0 3 21MEC206T Kinematics and Dynamics of 21MEC203L Machine Dynamics Laborate			0	2	1
21MEE357T Digital Signal and Image Processing 3 0 0 3 21MEC204L Fluid Dynamics Laboratory	0	_	0	2	1
Machine Learning Theory and 21MEC 2051 1 Mechanical Modeling and A		-	0	4	2
21MEE358T Macrille Learning Theory and 3 0 0 3 21MEC301T Thermal Systems Engineering		_	1	0	4
Artificial Intelligence Applications in 21MFC301P 1 Design of Mechanical Systematics 21MFC301P 2 Design of Mech			0	0	3
21MEE359T Mechanical Engineering 3 0 0 3 21MEC302T 2 Sensors and Control System			0	0	3
Total Credits 15 21MEC301L 1 Thermal Power Systems Lal			0	2	1
Total ofcults 10	U. alory	_	J		

						71ME(3021 1	Automation and Control Systems Laboratory		0 (2	1
						21MEC301J	Heat and Mass Transfer		3 () 2	4
						21MEC302J ²	Finite Element Methods		3 () 2	4
						21MEC303T	Industry 4.0		3 (0 0	3
								Tota	al Cı	edits	51
	Engineering Science Courses (S)					Project Work	, Seminar, Internship in Industry / H	ighe	r Te	chnic	al
Course	Course	Н	lours	s/			Institutions (P)				
Course Code	Title	۱ L	Veel T	k P	С	Course	Course		lour: Nee		
21CSS101J	Programming for Problem Solving	3	0	2	4	Code	Title	L	Т	Р	С
		-	_	4	2	21GNP301L 1	Community Connect	Λ	Λ	2	1
21MES101L 1	Basic Civil and Mechanical Workshop	0	0	4	2	ZIGNPSUIL	Community Connect	0	U		•
	Basic Civil and Mechanical Workshop Engineering Graphics and Design	0	0	4	2	21GNP301L ¹	Project	0	0	6	2
21MES102L 1		<u> </u>	0	4 0	2 4		,	-	0	6	3



40. (f) Programme Articulation: B.Tech. in Mechanical Engineering with Specialization in Artificial Intelligence and Machine Learning

Course Code Course Name 1						F	rogra	m Ou	tcome	s (PO))					PSO	
Course Code Course Name Part Pa			1	2	3				7			10	11	12	1		3
21MEC202T Mechanics of Solids		Course Name	Engineering Knowledge	Problem Analysis	of	Conduct investigations of complex problems			Environment & Sustainability	Ethics	-				PSO-1	PSO-2	
21MEC203T Engineering Materials and Metallurgy 2.3 - 2.2 - 2	21MEC201T	Engineering Thermodynamics			-	-	-		0	1	-	-	-	-	-	-	-
21MEC204T Manufacturing Processes and Metrology - 2.7 2.5 3 2.5 - - - - - 2 -			3	2.6		-		1	1	1	'n	ı	1	1	1	-	-
21MEC201L Laboratory Laboratory Laboratory Laboratory Laboratory Laboratory Laboratory Laboratory	21MEC203T	Engineering <mark>Materials and Metallu</mark> rgy	2.3	-	2.2	-		-	-		-	-	-	-	-	-	-
21MEC202L Laboratory	21MEC204T	Manufacturing Processes and Metrology	7-	2.7	2.5	3	2.5	-	-	-	-	7	-	-	-	2	-
Laboratory	24MEC2041	Manufacturing Processes and Metrology			1 1	2	1 5	7	-				9				
21MEC205T Fluid Mechanics and Machinery 3 3 3	ZTMEC201L			-	1.4	3	1.5	15 J	4	Æ.	-	-	-		-	-	-
21MEC205T Fluid Mechanics and Machinery 3 3 -	21MEC202L	Material Testing Laboratory	-	-	-	3	2	-	40	. /	1	-	-	4	-	-	-
21MEC208T Kinematics and Dynamics of Machines 3 3 3 - </td <td></td> <td></td> <td>3</td> <td>3</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>7-1</td> <td>-</td> <td>-</td> <td></td> <td></td> <td>-</td> <td>-</td>			3	3	-	-	-	-	-	-	7-1	-	-			-	-
21MEC203L Machine Dynamics Laboratory 3 2 - - 1 -			3	3	_	-	_	-	1	- "	-	4.	-	L .	-	L -	-
21MEC204L Fluid Dynamics Laboratory 3					-	٠	1	_	-	L	-	1	-			_	-
21MEC205L 21MEC301T Thermal Systems Engineering 3 - - - 2.8 - <th< td=""><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td>_</td><td>_</td><td></td><td>.3</td><td>-</td><td></td><td>-</td><td></td><td>_</td><td></td></th<>				_				_	_		.3	-		-		_	
21MEC301T Thermal Systems Engineering 3 -						10.0	- 3	_	_	_		28		_	-	-	
21MEC301P Design of Mechanical Systems 3 - 3 -																	
21MEC3021 Sensors and Control Systems 3													_	,			
21MEC301L Thermal Power Systems Laboratory 3 - - - 3 - - - 1.8 - - 1.8 - - 1.8 - - 1.8 - - 1.8 - - 1.1 - - 1.5 - - 1.1 2 - - 1.1 2 - - 1.1 2 - - - 1.1 2 - <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										_							
21MEC302L Automation and Control Systems Laboratory - - 2.7 - 1 - - - 1.5 - - 1 2 -							J								_		
21MEC301J Heat and Mass Transfer 3			,				1										
21MEC302J Finite Element Methods - 3 - 3 2 -		,		-		10.00			_			_		_			
21MEC303T Industry 4.0 1.4 2.5 2.3 1.5 3 2 - - - 2 2 - <			-	_					-		_						
21MEE351J IoT Systems Design - 2 1.2 1 - - - - 1 - <td< td=""><td></td><td></td><td>_</td><td></td><td></td><td>3</td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td></td<>			_			3						_					
21MEE352J Programming for Machine Learning - 2 3 2			_	2.3		4.0	_				_				<u> </u>		
21MEE353T Mathematics for Machine Learning - 3 2.2 -<			_						_						0	1	_
21MEE354T Soft Computing Techniques and its Applications - - - 2.8 3 - - - - 2.8 3 - - - - - 2.8 - -					0.0											_	
Applications			<u> </u>	3	2.2	-	_					-		- 1	1.5	7	
21MEE356T Machine Diagnostics and Condition Monitoring - 2 2.4 - 1 - - - - - 1.3 - 21MEE357T Digital Signal and Image Processing 2 2.8 3 -		Applications			2.8		į		-		-	-	-			3	-
Monitoring - 2 2.4 - 1 - - - - - - - -			-	2.8	NF.	3	2.8	-	-	-	-	-	-	- 7	1.8		-
21MEE358T Machine Learning Theory and Applications - 1.8 2.2 - 1.8 -	21 <mark>MEE35</mark> 6T		-	2	2.4	-	1	-	-	-	-	<i>J</i> -	4			1.3	-
21MEE358T Machine Learning Theory and Applications - 1.8 2.2 - 1.8 -	21MEE357T	Digital Signal and Image Processing	2	2.8	3	-		-	-	-	-	-	4	٧.	2.5	3	7 -
21MEE359T Artificial Intelligence Applications in Mechanical Engineering - 2 3 3 -			-	1.8	2.2		1.8	-	-	-	-	7	7 -	-		2.6	-
21GNP301L Community Connect -<		Artificial Intelligence Applications in	-	2	3	3		1	-		-	, <	-	-/	2	3	-
21MEP302L Project 3 2 2 3 3 1 3 3 3 3 - - - - 21MEP303T MOOC 3 2 2 3 3 3 3 3 3 3 - - - - 21MEP401L Major Project 3 <td>21GNP3011</td> <td></td> <td>1</td> <td>-</td> <td>T-</td> <td></td> <td></td> <td>-</td> <td>_</td> <td>-</td> <td>-</td> <td>-</td> <td>7</td> <td>7.</td> <td>-</td> <td>-</td> <td>-</td>	21GNP3011		1	-	T-			-	_	-	-	-	7	7.	-	-	-
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21MEP401L Major Project 3 <td< td=""><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td>_</td><td>J</td><td>-</td><td></td><td></td><td></td></td<>			_						1			_	J	-			
21MEP402L Major Project 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3									3				3				
21MEP403L Internship 3 2 2 3 3 3 1 3 3 3 3		, ,		-	-											-	
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40. (g) Implementation Plan: B.Tech. in Mechanical Engineering with Specialization in Artificial Intelligence and Machine Learning

	Semester - I				\equiv		Semester - II			_	
Cauras		Н	lours	s /		Cauras	Course	Н	lours	s /	
Course	Course		Nee			Course	Course	١	Nee	k	
Code	Title	L	Τ	Р	С	Code	Title	L	Τ	Р	С
21LEH101T	Communicative English	2	1	0	3	21LEH102T	Chinese				
	Calculus and Linear Algebra	3	1	0	4		French				
	Physics: Electromagnetic Theory,		_		_	21LEH104T	German				
	Quantum Mechanics, Waves and Optics	3	1	2	5	21LEH105T	Japanese	2	1	0	3
	Engineering Graphics and Design	0	0	4	2		Korean	1 -			
	Electrical and Electronics Engineering	3	1	0	4		Spanish	1			
	Environmental Science	1	0	0	0	21LEH108T	Russian				
	Professional Skills and Practices	0	0	2	0		Philosophy of Engineering	1	0	2	2
	Constitution of India	1	0	0	0		Advanced Calculus and Complex				
	T	otal		dits		21MAB102T	Analysis	3	1	0	4
			=			21CYB101J	Chemistry	3	1	2	5
	Semester – III						Engineering Mechanics	3	1	0	4
Course	Course		Hou				Programming for Problem Solving	3	0	2	4
Code	Title		We	ek			Biology	2	0	0	2
Code	Tiue	L	Τ	Р	С		Basic Civil and Mechanical Workshop	0	0	4	2
21MAB201T	Transforms and Boundary Value	3	1	0	4			0			_
	Problems					21PDM102L 1	General Aptitude	U	0	2	0
21MEC201T		3	0	0	3		Physical and Mental Health using Yoga				
	² Mechanics of Solids	3	_	0	4	21GNM102L 1	National Service Scheme	0	0	2	0
21MEC203T		3	0	0	3	21GNM103L ¹	National Cadet Corps	Ţ	Ĭ		Ĭ
	Manufacturing Processes and Metrology	_	0	0	3	21GNM104L ¹	National Sports Organization				
	Manufacturing Processes and Metrology Manufacturing Processes and Metrology		0	2	1		T	otal	Cre	dits	26
ZIWECZOIE	Laboratory		U	2	'		Semester – IV				
21MEC202L 1		0	0	2	1	_		Н	lours	3/	
21PDH209T ¹	· · ·	2	0	0	2	Course	Course		Nee		
21LEM201T ¹		1	0	0	0	Code	Title	Η.	T	Р	С
21PDM201L ¹		0	0	2	0	21MAB202T	Numerical Methods	3	1	0	4
ZIPDIVIZUIL		-	U		U		Artificial Intelligence	2	1	0	3
041 514000 1			,	0	2				1	,	_
21LEM202T ¹		a1 Z	1	0	3		Fluid Mechanics and Machinery	3	0	0	3
	Human Conduct	4	_	114	0.4		Kinematics and Dynamics of Machines	3	0	0	3
		otai	Cre	edits	, Z4	E	Professional Elective – I		<u> </u>		3
	Semester – V						Machine Dynamics Laboratory	0	0	2	1
0	0	Н	lours	s/			Fluid Dynamics Laboratory	0	0	2	1
Course	Course	١	Wee	k			Mechanical Modeling and Assembly	0	0	4	2
Code	Title	L	Τ	Р	С		Design Thinking and Methodology	1	0	0	3
21MAB301T	Probability and Statistics	3	1	0	4	21PDM202L ¹	Critical and Creative Thinking Skills	0	0	2	0
21MEC301T	Thermal Systems Engineering	3	1	0	4		T	otal	Cre	dits	23
21MEC301P ¹		3	0	0	3						
21MEC302T ²		3	0	0	3		Semester – VI				
E	Professional Elective – II	J	U	U	3	Course	Course	Н	lours	ا د	
_						Course Code	Course	١.	Wee		
O 21MEC301L ¹	Open Elective – I		Į.	\vdash	3		Title	_ '			С
1/11/11 31111		\cap	10	2	1	Code		L	Т	Р	
	Thermal Power Systems Laboratory	0	0	2	1		Data Science	_		0	2
21MEC301L ¹	Automation and Control Systems		0	2	1	21CSS303T		L	T		4
21MEC302L ¹	Automation and Control Systems Laboratory	0	0	2	1	21CSS303T 21MEC301J	Heat and Mass Transfer	L 2 3	T 0 0	0	4
21MEC302L ¹ 21PDM301L ¹	Automation and Control Systems Laboratory Analytical and Logical Thinking Skills		0	2	1	21CSS303T 21MEC301J 21MEC302J ²	Heat and Mass Transfer Finite Element Methods	2 3 3	T 0 0 0	0 2 2	4
21MEC302L ¹ 21PDM301L ¹ 21LEM301T ¹	Automation and Control Systems Laboratory Analytical and Logical Thinking Skills Indian Art Form	0 0 1	0 0 0	2 2 0	1	21CSS303T 21MEC301J 21MEC302J ² 21MEC303T	Heat and Mass Transfer Finite Element Methods Industry 4.0	L 2 3	T 0 0	0	4 4 3
21MEC302L ¹ 21PDM301L ¹	Automation and Control Systems Laboratory Analytical and Logical Thinking Skills Indian Art Form Community Connect	0 0 1 0	0 0 0	2 0 2	1 0 0 1	21CSS303T 21MEC301J 21MEC302J ² 21MEC303T E	Heat and Mass Transfer Finite Element Methods Industry 4.0 Professional Elective – III	L 2 3 3 3	T 0 0 0 0 0	0 2 2 0	4 4 3 3
21MEC302L ¹ 21PDM301L ¹ 21LEM301T ¹	Automation and Control Systems Laboratory Analytical and Logical Thinking Skills Indian Art Form Community Connect	0 0 1 0	0 0 0	2 2 0	1 0 0 1	21CSS303T 21MEC301J 21MEC302J ² 21MEC303T E 21MEP302L ¹	Heat and Mass Transfer Finite Element Methods Industry 4.0 Professional Elective – III Project	L 2 3 3 3	T 0 0 0 0 0 0 0	0 2 2 0	4 4 3
21MEC302L ¹ 21PDM301L ¹ 21LEM301T ¹	Automation and Control Systems Laboratory Analytical and Logical Thinking Skills Indian Art Form Community Connect	0 0 1 0	0 0 0	2 0 2	1 0 0 1	21CSS303T 21MEC301J 21MEC302J ² 21MEC303T E 21MEP302L ¹ 21MEP303T ¹	Heat and Mass Transfer Finite Element Methods Industry 4.0 Professional Elective – III Project MOOC	L 2 3 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 2 0 6 0	4 4 3 3 3
21MEC302L ¹ 21PDM301L ¹ 21LEM301T ¹	Automation and Control Systems Laboratory Analytical and Logical Thinking Skills Indian Art Form Community Connect	0 1 0 otal	0 0 0 0 Cre	2 0 2 dits	1 0 0 1	21CSS303T 21MEC301J 21MEC302J ² 21MEC303T E 21MEP302L ¹ 21MEP303T ¹ 0	Heat and Mass Transfer Finite Element Methods Industry 4.0 Professional Elective – III Project MOOC Open Elective – II	L 2 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0	0 2 2 0 6 0	4 4 3 3 3 3
21MEC302L ¹ 21PDM301L ¹ 21LEM301T ¹ 21GNP301L ¹	Automation and Control Systems Laboratory Analytical and Logical Thinking Skills Indian Art Form Community Connect Semester – VII	0 1 0 otal	0 0 0 Cre	2 0 2 dits	1 0 0 1	21CSS303T 21MEC301J 21MEC302J ² 21MEC303T E 21MEP302L ¹ 21MEP303T ¹ O 21PDM302L ¹	Heat and Mass Transfer Finite Element Methods Industry 4.0 Professional Elective – III Project MOOC Open Elective – II Employability Skills and Practices	L 2 3 3 3 3 3 0 0 0	0 0 0 0 0 0	0 2 2 0 6 0 0 2	4 4 3 3 3
21MEC302L ¹ 21PDM301L ¹ 21LEM301T ¹ 21GNP301L ¹ Course	Automation and Control Systems Laboratory Analytical and Logical Thinking Skills Indian Art Form Community Connect Semester – VII Course	0 1 0 otal	0 0 0 Cre	2 0 2 edits	1 0 0 1 23	21CSS303T 21MEC301J 21MEC302J ² 21MEC303T E 21MEP302L ¹ 21MEP303T ¹ 0	Heat and Mass Transfer Finite Element Methods Industry 4.0 Professional Elective – III Project MOOC Open Elective – II Employability Skills and Practices Indian Traditional Knowledge	L 2 3 3 3 0 3 0 1	0 0 0 0 0 0 0	0 2 2 0 6 0 0 2	4 4 3 3 3 0 0
21MEC302L 1 21PDM301L 1 21LEM301T 1 21GNP301L 1 Course Code	Automation and Control Systems Laboratory Analytical and Logical Thinking Skills Indian Art Form Community Connect Semester – VII Course Title	0 0 1 0 otal	0 0 0 Cre	2 2 0 2 edits	1 0 0 1 23	21CSS303T 21MEC301J 21MEC302J ² 21MEC303T E 21MEP302L ¹ 21MEP303T ¹ O 21PDM302L ¹	Heat and Mass Transfer Finite Element Methods Industry 4.0 Professional Elective – III Project MOOC Open Elective – II Employability Skills and Practices Indian Traditional Knowledge	L 2 3 3 3 3 3 0 0 0	0 0 0 0 0 0 0	0 2 2 0 6 0 0 2	4 4 3 3 3 0 0
21MEC302L 1 21PDM301L 1 21LEM301T 1 21GNP301L 1 Course Code	Automation and Control Systems Laboratory Analytical and Logical Thinking Skills Indian Art Form Community Connect Semester – VII Course	0 1 0 otal	0 0 0 Cre	2 2 0 2 edits	1 0 0 1 23	21CSS303T 21MEC301J 21MEC302J ² 21MEC303T E 21MEP302L ¹ 21MEP303T ¹ O 21PDM302L ¹	Heat and Mass Transfer Finite Element Methods Industry 4.0 Professional Elective – III Project MOOC Open Elective – II Employability Skills and Practices Indian Traditional Knowledge	L 2 3 3 3 0 3 0 1	0 0 0 0 0 0 0	0 2 2 0 6 0 0 2	4 4 3 3 3 0 0
21MEC302L ¹ 21PDM301L ¹ 21LEM301T ¹ 21GNP301L ¹ Course Code 21GNH401T	Automation and Control Systems Laboratory Analytical and Logical Thinking Skills Indian Art Form Community Connect Semester – VII Course Title	0 0 1 0 otal	0 0 0 Cre	2 2 0 2 edits	1 0 0 1 23	21CSS303T 21MEC301J 21MEC302J ² 21MEC303T E 21MEP302L ¹ 21MEP303T ¹ O 21PDM302L ¹	Heat and Mass Transfer Finite Element Methods Industry 4.0 Professional Elective – III Project MOOC Open Elective – II Employability Skills and Practices Indian Traditional Knowledge	L 2 3 3 3 3 0 1 1 ootal	0 0 0 0 0 0 0 0	0 2 2 0 6 0 0 2 0 dits	4 4 3 3 3 0 0
21MEC302L1 21PDM301L1 21LEM301T1 21GNP301L1 Course Code 21GNH401T E	Automation and Control Systems Laboratory Analytical and Logical Thinking Skills Indian Art Form Community Connect To Semester – VII Course Title Behavioral Psychology	0 0 1 0 otal	0 0 0 Cre	2 2 0 2 edits	1 0 0 1 23	21CSS303T 21MEC301J 21MEC302J ² 21MEC303T E 21MEP302L ¹ 21MEP303T ¹ O 21PDM302L ¹ 21LEM302T ¹	Heat and Mass Transfer Finite Element Methods Industry 4.0 Professional Elective – III Project MOOC Open Elective – II Employability Skills and Practices Indian Traditional Knowledge	L 2 3 3 3 3 0 0 1 1 otal	0 0 0 0 0 0 0 Cree	0 2 2 0 6 0 0 2 0 dits	4 4 3 3 3 0 0
21MEC302L 1 21PDM301L 1 21LEM301T 1 21GNP301L 1 Course Code 21GNH401T E E	Automation and Control Systems Laboratory Analytical and Logical Thinking Skills Indian Art Form Community Connect To Semester – VII Course Title Behavioral Psychology Professional Elective – IV	0 0 1 0 otal	0 0 0 Cre	2 2 0 2 edits	0 0 1 23 C C	21CSS303T 21MEC301J 21MEC302J ² 21MEC303T E 21MEP302L ¹ 21MEP303T ¹ O 21PDM302L ¹ 21LEM302T ¹	Heat and Mass Transfer Finite Element Methods Industry 4.0 Professional Elective – III Project MOOC Open Elective – II Employability Skills and Practices Indian Traditional Knowledge T Semester - VIII Course	L 2 3 3 3 3 0 0 1 1 otal	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 2 0 6 0 0 2 0 dits	4 4 3 3 3 0 0 22
21MEC302L 1 21PDM301L 1 21LEM301T 1 21GNP301L 1 Course Code 21GNH401T E E	Automation and Control Systems Laboratory Analytical and Logical Thinking Skills Indian Art Form Community Connect To Semester – VII Course Title Behavioral Psychology Professional Elective – IV Professional Elective – V Open Elective – III	0 0 1 0 otal	0 0 0 Cre	2 2 0 2 2 dits	0 0 1 23 C C 3 3 3 3	21CSS303T 21MEC301J 21MEC302J ² 21MEC303T E 21MEP302L ¹ 21MEP303T ¹ O 21PDM302L ¹ 21LEM302T ¹ Course Code	Heat and Mass Transfer Finite Element Methods Industry 4.0 Professional Elective – III Project MOOC Open Elective – II Employability Skills and Practices Indian Traditional Knowledge To Semester - VIII Course Title	L 2 3 3 3 3 0 1 1 otal	0 0 0 0 0 0 0 Cree	0 2 2 0 6 0 2 0 dits	4 4 3 3 3 0 0 22
21MEC302L ¹ 21PDM301L ¹ 21LEM301T ¹ 21GNP301L ¹ Course Code 21GNH401T E E O	Automation and Control Systems Laboratory Analytical and Logical Thinking Skills Indian Art Form Community Connect Semester – VII Course Title Behavioral Psychology Professional Elective – IV Professional Elective – V Open Elective – III Ti	0 0 1 0 otal	0 0 0 Cre	2 0 2 dits	0 0 1 23 C C 3 3 3 3	21CSS303T 21MEC301J 21MEC302J ² 21MEC303T E 21MEP302L ¹ 21MEP303T ¹ O 21PDM302L ¹ 21LEM302T ¹ Course Code	Heat and Mass Transfer Finite Element Methods Industry 4.0 Professional Elective – III Project MOOC Open Elective – II Employability Skills and Practices Indian Traditional Knowledge T. Semester - VIII Course Title Major Project	L 2 3 3 3 3 0 0 1 total Ho W L 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 2 0 6 0 2 0 dits	4 4 3 3 3 0 0 22
21MEC302L 1 21PDM301L 1 21LEM301T 1 21GNP301L 1 Course Code 21GNH401T E E O #Students have	Automation and Control Systems Laboratory Analytical and Logical Thinking Skills Indian Art Form Community Connect Semester – VII Course Title Behavioral Psychology Professional Elective – IV Professional Elective – V Open Elective – III Tiele to register either 21MEP401L or 21MEP4	0 0 1 0 otal	0 0 0 Cre	2 0 2 dits	0 0 1 23 C C 3 3 3 3	21CSS303T 21MEC301J 21MEC302J ² 21MEC303T E 21MEP302L ¹ 21MEP303T O 21PDM302L ¹ 21LEM302T ¹ Course Code 21MEP401L 21MEP402L	Heat and Mass Transfer Finite Element Methods Industry 4.0 Professional Elective – III Project MOOC Open Elective – II Employability Skills and Practices Indian Traditional Knowledge T. Semester - VIII Course Title Major Project	L 2 3 3 3 3 0 0 1 total Ho W L 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 2 0 6 0 0 2 0 dits	3 3 0 0 22
21MEC302L 1 21PDM301L 1 21LEM301T 1 21GNP301L 1 Course Code 21GNH401T E E O #Students have	Automation and Control Systems Laboratory Analytical and Logical Thinking Skills Indian Art Form Community Connect Semester – VII Course Title Behavioral Psychology Professional Elective – IV Professional Elective – V Open Elective – III Ti	0 0 1 0 otal	0 0 0 Cre	2 0 2 dits	0 0 1 23 C C 3 3 3 3	21CSS303T 21MEC301J 21MEC302J ² 21MEC303T E 21MEP302L ¹ 21MEP303T ¹ O 21PDM302L ¹ 21LEM302T ¹ Course Code	Heat and Mass Transfer Finite Element Methods Industry 4.0 Professional Elective – III Project MOOC Open Elective – II Employability Skills and Practices Indian Traditional Knowledge T. Semester - VIII Course Title Major Project	L 2 3 3 3 3 0 0 1 1 otal	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 2 0 6 0 2 0 dits	4 4 3 3 3 0 0 0 22
21MEC302L 1 21PDM301L 1 21LEM301T 1 21GNP301L 1 Course Code 21GNH401T E E O #Students have	Automation and Control Systems Laboratory Analytical and Logical Thinking Skills Indian Art Form Community Connect Semester – VII Course Title Behavioral Psychology Professional Elective – IV Professional Elective – V Open Elective – III Tiele to register either 21MEP401L or 21MEP4	0 0 1 0 otal	0 0 0 Cre	2 0 2 dits	0 0 1 23 C C 3 3 3 3	21CSS303T 21MEC301J 21MEC302J ² 21MEC303T E 21MEP302L ¹ 21MEP303T O 21PDM302L ¹ 21LEM302T ¹ Course Code 21MEP401L 21MEP402L	Heat and Mass Transfer Finite Element Methods Industry 4.0 Professional Elective – III Project MOOC Open Elective – II Employability Skills and Practices Indian Traditional Knowledge T. Semester - VIII Course Title Major Project Major Project Internship#	L 2 3 3 3 3 0 0 1 1 otal	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 2 0 6 0 2 0 dits	4 4 3 3 3 0 0 22 C 15 10 5



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