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

4. B.Tech. in Automobile Engineering

4. (a) Mission of the Department

Mission Stmt – 1	To impart students with quality education centered on altering global requirements and add values to their career desires
Mission Stmt – 2	To enhance the knowledge and skill of students in collaboration with public and private sectors
	To identify and acknowledge economic, social and environmental issues that influences the quality of life in the vicinity and the globe
Mission Stmt – 4	To inculcate leadership qualities needed for automotive industries through robust curriculum with international outlook for sustainable future
Mission Stmt – 5	To build trust and co-operation at the workplace through effective inter-personal and communication skills

4. (b) Program Educational Objectives (PEO)

PEO – 1	Pursue advanced education, research and development, and other creative and innovative efforts in Automobile engineering
PEO – 2	Successfully apply analytical techniques, problem-solving skills necessary to adapt to technological changes and for a career in the field of automobile and mechanical engineering
PEO – 3	Implement their engineering knowledge acquired from projects, laboratory experimentation, classroom lectures and demonstrations to acknowledge the full range of technical and associated environmental issues
PEO – 4	Efficaciously use their communication skills in oral, written, visual and graphic modes within interpersonal, team, and group environments
PEO – 5	Retain the intellectual curiosity that motivates lifelong learning making them versatile to the rapidly evolving industrial challenges

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

2	Mission Stmt 1	Mission Stmt 2	Mission Stmt 3	Mission Stmt 4	Mission Stmt 5
PEO - 1	3	2	2	1 1	1
PEO - 2	3	2	2 1 5 2	3	1
PEO - 3	3	3	2	2	3
PEO - 4	2	3	3	2	3
PEO - 5	3	2	3	3	2

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

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

	r 8			-	Pro	gram Ou	tcomes (PO)	- 8 -		J		Prog	gram <mark>Spe</mark>	ecific
	1	2	- 3	4	5	6	7	8	9	10	-11	12	Outo	co <mark>mes (</mark> F	SO)
	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	PS0-2	PSO-3
PEO - 1	3	1	2	2	3	1	1	2	2	3	_1	3	3	2	3
PEO - 2	3	3	2	3	2	1	1	1	3	2	2	3	2	2	3
PEO - 3	3	3	3	3	3	3	3	3	3	2	2	3	3	3	3
PEO - 4	1	2	1	1	2	1	2	3	3	3	2	2	2	2	1
PEO - 5	2	2	2	2	2	3	2	3	3	2	2	2	2	2	2

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

PSO - Program Specific Outcomes (PSO)

•	oo ilogi	am speeme outcomes (1 50)
PSO - 1 Ability with a Ability technol	Ability to implement the knowledge of the design, manufacture, and maintenance of major subsystems and technologies associated	
	with automobiles for sustainable professional career	
	DSO 2	Ability to comprehend and communicate effectively within a multidisciplinary working environment in the context of the emerging
	F30 - 2	technologies.
	PSO - 3	Ability to acquire technical and managerial skill that makes them an employable graduate.
		is any to adjust to an analysis and managerial of the first transfer of the first transf

4.(e). Program Structure: B.Tech. in Automobile Engineering

Professional Core Course C	_			
Course	H	ours	s /	
Course C	V	Vee		
21LEH101T Communicative English 2 1 0 3 21LEH102T Chinese	L	Τ	Р	С
	3	1	2	5
	3	1	2	5
	3	1	0	4
21LEH106T Apanese 2		1	0	4
		1	0	4
	3	1	0	4
	2	0	0	2
2 0 0 2 2 1 0 0 3 3 4 4 2 1 0 0 3 4 4 2 4 0 0 4 2 4 0 0 4 2 4 0 0 4 2 4 0 0 4 2 4 0 0 4 2 2 0 0 2 2 2 0 0 2 2	3	1	0	4
Professional Core Courses (C) Course Course Course Course Code Title L T P C C C C C C C C C	tal (Cre	dits	32
Course	_			_
Course			,	
Course		lours		
Course	I	Nee T	P	С
Code	2	1	0	3
21MES101L 1 Basic civil and Mechanical Workshop 0 0 4 2 2 2 2 2 2 2 2 2	3	0	0	3
21MLS102L Engineering Graphics and Design 0 0 4 2 2 2 2 2 2 2 2 2	2	0	2	3
21HES10ZL Engineering Graphics and Design 0 0 4 2 2 21ESS101J Programming for Problem Solving 3 0 2 4 21ESS101J Programming for Problem Solving 3 0 2 4 21HES101L Artifact Dissection Lab 0 0 2 1 2 2 3 3 2 4 2 21HES201L Artifact Dissection Lab 0 0 2 1 2 2 3 3 2 4 2 2 2 3 3 2 4 2 2 2 2 2 2 2 2				
21ESS1011	2	0	2	3
21AUS101L Artifact Dissection Lab	3	1	0	4
21DCS201P Design Thinking and Methodology	3	0	0	3
21MES101T Engineering Mechanics 3 1 0 4 2 10 0 2 2 0 0 2 2 0 0	0	0	2	1
2 0 0 2 7 7 7 7 7 7 7 7 7	0	0	2	1
Total Credits 22	3	0	0	3
Project Work, Seminar, Internship in Industry / Higher Technical Institutions (P)	3	0	0	3
Course	3	0	0	3
Course	2	0	2	3
Course				-
Code	0	0	2	1
Course Code				
21AUP303L Project	2	0	2	3
21AUP302L Project	3	0	2	4
21AUP401L Major Project	2	0	2	3
Course Course Course Code Title Title Code Title Code Title Code	2	0	2	3
Course Course Course Course Course Code Title	otal (Cre	dits	47
Course				
Course Code Title Course Code Course Solution Course Code Code Code Code Code Code Code Cod	н	ours	. /	
Course Code		Vee		
Course	L	Т	Р	С
Course Code	0	0	2	
Course Code Title L T P C 21AUO101T Hybrid and Electric Vehicles 3 0 0 3 21AUO102T Renewable Sources of Energy 3 0 0 3 21AUO103T Special Type of Vehicles 3 0 0 3 21AUO104T Fuel Cells and Applications 3 0 0 3 21AUO105T Transport Management 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21I EM202T 1 Universal Human Values - Introduction 21 EM202T 1 Universal Human Values - II: 22 EM202T 1 Universal Human Values - II: 23 EM202T 1 Universal Human Values - II: 24 EM202T 1 Universal Human Values	0	0	2	
Code Title L T P C 21AUO101T Hybrid and Electric Vehicles 3 0 0 3 21AUO102T Renewable Sources of Energy 3 0 0 3 21AUO103T Special Type of Vehicles 3 0 0 3 21AUO104T Fuel Cells and Applications 3 0 0 3 21AUO105T Transport Management 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21LEM201T Critical and Creative Thinking Skills 21PDM301L Analytical and Logical Thinking Skills 21PDM302L Employability Skills and Practices 21CYM101T Environmental Science 21LEM101T Constitution of India 21LEM102T Universal Human Values – Introduction 21LEM201T Professional Ethics Universal Human Values-II: 21LEM202T Universal Human Values-II:	0	0	2	0
21AUO101T Hybrid and Electric Vehicles 3 0 0 3 21AUO102T Renewable Sources of Energy 3 0 0 3 21AUO103T Special Type of Vehicles 3 0 0 3 21AUO104T Fuel Cells and Applications 3 0 0 3 21AUO105T Transport Management 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21 EM202T 1 Universal Human Values - Introduction 21LEM20TT	0	0	2	
21AUO102T Renewable Sources of Energy 3 0 0 3 21AUO103T Special Type of Vehicles 3 0 0 3 21AUO104T Fuel Cells and Applications 3 0 0 3 21AUO105T Transport Management 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3	0	0	2	
21AUO103T Special Type of Vehicles 3 0 0 3 21AUO104T Fuel Cells and Applications 3 0 0 3 21AUO105T Transport Management 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 2 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 2 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 2 21AUO106T Composite Materials for Automotive Applications 3 0 0 0 3 2 21AUO106T Composite Materials for Automotive Applications 3 0 0 0 3 2 21AUO106T Composite Materials for Automotive Applications 3 0 0 0 3 2 21AUO106T Composite Materials for Automotive Applications 3 0 0 0 3 2 21AUO106T Composite Materials for Automotive Applications 3 0 0 0 3 2 21AUO106T Composite Materials for Automotive Applications 3 0 0 0 3 2 21AUO106T Composite Materials for Automotive Applications 3 0 0 0 3 2 21AUO106T Composite Materials for Automotive Applications 3 0 0 0 3 2 21AUO106T Composite Materials for Automotive Applications 3 0 0 0 3 2 21AUO106T Composite Materials for Automotive Applications 3 0 0 0 3 2 21AUO106T Composite Materials for Automotive Applications 3 0 0 0 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0	0	2	_
21AUO104T Fuel Cells and Applications 3 0 0 3 21AUO105T Transport Management 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3	1	0	0	0
21AUO105T Transport Management 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3 21AUO106T Composite Materials for Automotive Applications 3 0 0 3	1	0	0	0
21AUO106T Composite Materials for Automotive Applications 3 0 0 3 Universal Human Values-II:	1	0	0	0
Applications 21 EM202T 1 Understanding Harmony and Ethical	1	U	U	U
	2	1	0	3
21AUO107T Non-Destructive Testing and Evaluation 3 0 0 3 Human Conduct				
21AUO108T Advanced Engine Technology 3 0 0 3 21LEM301T 1 Indian Art Form	1	0	0	0
21AUO109T New Product Development 3 0 0 3 21LEM302T 1 Indian Traditional Knowledge	1	0	0	0
21AUO110T Automotive Standards and Regulations 3 0 0 3 21GNM101L 1 Physical and Mental Health using Yoga				
21AUO111T Automotive Sciences 3 0 0 3 21GNM102L 1 National Service Scheme	0	0	2	0
21AUO112T Intelligent Vehicle Technology 3 0 0 3 21GNM103L 1 National Cadet Corps			_	Ü
Total Credits 09 21GNM104L National Sports Organization	Ļ			L_
То	tal (Cred	dits	03

	Professional Elective Courses (E) (Any 6 Courses)						Professional Elective Courses (E)				
Course Code	Course Title		ours Vee		С	Course Code	Course Title		ours Veel T		С
	Sub-stream: Manufacturing						Sub-stream: Design				
21AUE221T	Automotive Components Manufacturing	3	0	0	3	21AUE241T	Automotive Driveline Design	3	0	0	3
21AUE222T	Welding and Joining Techniques	3	0	0	3	21AUE242T	Automotive Chassis Component Design	3	0	0	3
21AUE321T	Automotive Surface Engineering	3	0	0	3	21AUE341T	Vehicle Design Data Characteristics	3	0	0	3
21AUE322T	Agile Manufacturing	3	0	0	3	21AUE342T	Concepts of Engineering Design	3	0	0	3
21AUE323T	Manufacturing Systems and Simulation	3	0	0	3	21AUE343T	Rapid Prototyping and Tooling	3	0	0	3
21AUE324T	Advanced Manufacturing Process	3	0	0	3	21AUE344T	Modeling and Control of Vibration in	3	0	0	3
21AUE325T	Computer Integrated Manufacturing	3	0	0	3	ZIAUES441	Mechanical Systems	3	0	U	J
21AUE326T	Process Planning and Cost Estimation	3	0	0	3		Design for Manufacture	3	0	0	3
21AUE421T	Automotive Quality Systems	3	0	0	3	21AUE442T	Geometrical Dimensioning and Tolerance	3	0	0	3
21AUE422T	Industrial Engineering and Operational	3	0	0	3		Sub-stream : Vehicular Technologies				
21A0L4221	Research	5	U	U	J	21AUE251T	Auxiliary Vehicle Systems	3	0	0	3
	Sub-stream: Engine					21AUE252T	Two and Three Wheeler Technology	3	0	0	3
	Heat Ventilation and Air Conditioning	3	0	0	3		Vehicle Performance and Testing	3	0	0	3
	Engine Testing and Validation	3	0	0	3	21AUE352T	Tyre Technology	3	0	0	3
21AUE331T	Fuel Testing and Standards	3	0	0	3	21AUE353T	Motorsport Technology	3	0	0	3
21AUE332T	Automotive Exhaust System Development	3	0	0	3	21AUE354T	Automotive NVH	3	0	0	3
21AUE333T	Engine Auxiliary Systems	3	0	0	3	21AUE355T	Advanced Vehicle Technology	3	0	0	3
21AUE334T	Design of Automotive Thermal System	3	0	0	3	21AUE451T	Automotive Safety and Ergonomics	3	0	0	3
21AUE335T	Simulation of Internal Combustion Engines	3	0	0	3	21AUE452T	Vehicle Body Engineering and Aerodynamics	3	0	0	3
21AUE431T	Automotive Emission Formation and Controls	3	0	0	3	752	T	otal	Cred	dits	18
21AUE432T	Alternative Fuels and Energy Systems	3	0	0	3		93.54				



4. (f) Programme Articulation: B.Tech. in Automobile Engineering

4. (f) P	rogramme Articulation: B.Tech. i	II AU	uom	10011		_		_	- /DO						Dec	
		1	2	3	<u>F</u>	rogra 5	m Ou 6	tcome 7	8 (PO	9	10	11	12	1	PSO 2	3
Course Code	Course Name	Engineering Knowledge	Problem Analysis	Design/development of solutions	Jo		The engineer and society	Environment & Sustainability -	Ethics	ndividual & Team Work	Communication	Project Mgt. & Finance	Life Long Learning ⊼	PSO-1	PSO-2	PSO-3
21AUS101L	Artifact Dissection Lab	3	3	_ 0	00				Ш	_		ш	3	2	1	1
	Applied Thermal Engineering	1.2	1.6	0.6			I III	0.4						1.6	1.2	0.6
21AUC202J	Manufacturing Tachnology for Automotive	3	3					0.8						3	3	
21 / 11/02/02 /	Automotive Engines	1.6	0.6	0.2	0.8	0.6		0.8		+,,,				1.6	0.6	0.2
	CAD Analysis for Automotive Engineers	3	1	2	1	1.8		0.0						3	0.6	0.2
	Design of Automotive Systems Laboratory	2.6	1.8	2.6	2.4	1.8	7							2.6	1.8	2.6
	Vehicular Structures and Driveline Systems	3	1.0	0.8	0.6	1.0		0.4						3	1.0	2.0
	Automotive Electrical and Electronic Systems	3	3	1	1	1.8		0.4		1	1	_	1	3	3	1
	Finite Element Analysis	3	3	0.4	2	1.0		- 1	-		- 1			3	2	
	Vehicle Dynamics	3	3	0.4		3					-			3	2	
	Vehicle Maintenance	0.2	J	0.4	1.6	2.4								3		
	Automotive Components Manufacturing	3	2	0.4	1.0	2.4								3		
	Welding and Joining Techniques	1.6	0.2	0.4	1.2	0.8					-	0.6		3		
	Automotive Surface Engineering	1.6	1.6	1.8	1.2	0.0	-				-	0.0		3	1.2	
	Agile Manufacturing	3	2	1.0	2.2	-							+	2.6	1.2	_
	Manufacturing Systems and Simulation	2.4	0.4	0.8	1.6	0.8	Let e							3	-	
	Advanced Manufacturing Process	2.4	0.4	1.2	1.2	0.8	-							3	0.8	
		3	2	1.2	1.2	1	-			-				3	0.0	
	Computer Integrated Manufacturing Process Planning and Cost Estimation	1.6	1.8	1.6	1	1			1	957				2.4	_	
	Automotive Quality Systems	1.6	1.6	1.8	1									2.4		
	Industrial Engineering and Operational	1.0		1.0	1 -				- 10							
21AUE4 22T	Research	3	2.4	3.5	2	E.	£ 24)	25年	$Z_{i_{-}}$. 1				1.8	2 <mark>.2</mark>	
21AUE231T	Heat ventilation and air conditioning	2.6	0.4	0.6				0.4		- 25				3	0.8	
	Engine testing and validation	2.6	0.2	1.4	1.2					0.2		0.6		3	1.6	
	Fuel testing and standards	3	2	1	3	1	100	3	3	2				3		
	Automotive exhaust system development	3	2.8	1	2			2.4						3	7 1	
	Engine auxiliary systems	3	0.6	0.6	1.8									3		
	Design of automotive thermal system	0.4		0.6	0.6	0.4								2.2	0.6	
	Simulation of Internal Combustion Engines	3	2		2.8	3		1			7			0.6	2.4	
	Automotive emission formation and controls	1.6		0.4	2.2			1.8				4	Y	3	1.6	
	Alternative fuels and energy systems	2	1	600				3		7				2.6		
21AUE241T	Automotive Driveline Design	1.6	1.8	2.6	A. I						7			3		
	Automotive Chassis Component Design	2.2	1.8	2							7			3		
21AUE341T	Vehicle Design Data Characteristics	2.8	3	2.8		40.						1		3		
	Concepts of Engineering Design	2.4	0.4	2.2	1	0.4			- 5	m	-			3		
21 A LIE 3/13T	Panid prototyping and tooling	2.6	1	1.8	1.6			JL.	ii k	377		7		2.4	1	0.5
21AUE344T	Modeling and Control of Vibration in	1.2	2.4	1.2	1.2									3		
	INIECHANIC <mark>ai Systems -</mark>	2.2		2.2	3									3		
	Design for Manufacture	2.2	2.5	1.5	J									1.5	2.25	
	Geometrical Dimensioning and Tolerance	3	3	1.0			3							3	2.25	
	Auxiliary vehicle systems Two and three wheeler technology	3	0.6	1.8			J	1.2			-7			3		
	Vehicle performance and testing	0.2	0.0	0.4	1	0.6		1.2						3		
	Tyre technology	3	10	1.2	2.4	0.6								3		
	Motorsport technology	3	1.8 1.8	0.6	0.8	0.0								3		
	Automotive NVH	3	2.4	0.0	0.0									3	0.6	1
	Advanced vehicle technology	3	3	0.6	0.4									3	0.0	
	Automotive Safety and Ergonomics	3	٦	0.8	0.6			0.4						3		
	Vehicle body Engineering and Aerodynamics	3		0.8	0.6			0.4						J		
21AUP303T		3	2	2	0.0			0.7			2		2			
21AUP302L		3	3	3	3	3	2	2	3	3	3	3	3	3	3	3
	Major Project	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Major Project	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
21AUP403L		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Program Average	2.4	1.6	1.1	1.1	0.6	0.2	0.5	0.2	0.2	0.2	0.2	0.3	2.6	0.8	0.3
	i rogium rivorago	∠.⊤	7.0	1.1	11	0.0	U. L	0.0	U.Z	U.Z	U.L	U.L	0.0	2.0	0.0	0.0

4. (g) Implementation Plan: B.Tech. in Automobile Engineering

\(\mathcal{O}\)	Semester – I						Semester – II				_
0		H	lours	s /				H	lours	s /	
			Wee	k		Course	Course	١	Wee	k	
Code	riue	L	Τ	Р	С	Code	Title	L	Τ	Р	С
21LEH101T	Communicative English	2	1	0	3	21LEH102T	Chinese				
21MAB101T		3	1	0	4	21LEH103T	French				
21DVR101 I	Physics: Electromagnetic Theory,	3	1	2	5	21LEH104T	German				
						21LEH105T	Japanese	2	1	0	3
		0	0	4	2	21LEH106T	Korean				
		3	1	0	4	21LEH107T	Spanish				
		0	0	2	1	21LEH108T	Russian				
		1	0	0	0	21GNH101J		1	0	2	2
		0	0	2	0	21MAB102T	Advanced Calculus and Complex	3	1	0	4
21LEM101T ¹		1	0	0	0		Analysis			Ť	
	T	otal	Cre	dits	19	21CYB101J	Chemistry	3	1	2	5
21PYB101J Physics: Electromagnetic Theory, Quantum Mechanics, Waves and Optic 21MES102L 1 Engineering Graphics and Design 21EES101T Electrical and Electronics Engineering 21AUS101L 1 Artifact Dissection Lab 21CYM101T 1 Environmental Science 21PDM101L 1 Professional Skills and Practices 21LEM101T 1 Constitution of India Semester – III Course Code Title 21MEC202T 2 Mechanics of Solids 21MEC203T Engineering Materials and Metallurgy Problems 21AUC203T Engineering Materials and Metallurgy 21AUC201T 2 Applied Thermal Engineering Manufacturing Technology for Automotive Engineers 21PDH209T 1 Social Engineering 21LEM201T 1 Professional Ethics 21PDM201L 1 Verbal Reasoning Universal Human Values-II: Understanding Harmony and Ethical Human Conduct 21MEC202L 1 Material Testing Laboratory Semester – V Course Course Course Course Course Title 21MAB301T Probability and Statistics 21MEC206T Kinematics and Dynamics of Machines Systems E Professional Elective – II O Open Elective – I 21PDM301L 1 Analytical and Logical Thinking Skills* 21LEM301T 1 Indian Art Form 21AUC303L 1 Design of Automotive Systems Laboratory 21GNP301L 1 Community Connect Semester – VII Course Course Course Course Title 21GNP401T 1 Design of Automotive Systems Laboratory 21GNP301L 1 Community Connect Semester – VII Course Course Title 21GNH401T Behavioral Psychology 21AUC401J Vehicle Dynamics 21AUC402J Vehicle Maintenance			- 1			21BTB103T	Biology	2	0	0	2
	Semester – III					21CSS101J	Programming for Problem Solving	3	0	2	4
Course	Course		Hour					3	1	0	4
		_	Wee				Basic Civil and Mechanical Workshop	0	0	4	2
		L	Т	Р	С		General Aptitude*	0	0	2	0
21MAB201T		3	1	0	4		Physical and Mental Health using Yoga	4			
24MEC202T		2	1	0	1		National Service Scheme	0	0	2	0
		3	1	0	4		National Cadet Corps	4			
		3	0	0	3	21GNM104L 1	National Sports Organization	-4-1	0	-1!4-	00
	Manufacturing Tachnology for	3	U	U	3			otal	Cre	aits	20
21AUC203J		2	0	2	3		Semester – IV				
21PDH200T 1		2	0	0	2	Course	Course		lours		
		1	0	0	0	Code	Title		Wee		
		0	0	2	0			L	T	Р	С
ZII DIVIZOTE		0	10		U		Numerical Methods	3	1	0	4
21I FM202T 1		2	1	0	3	21CSC206T	Artificial Intelligence	2	1	0	3
L'ILLINIE OL!		-	l '	Ŭ			Fluid Mechanics and Machinery	3	0	0	3
21MEC202L		0	0	2	1	21AUC202J	Automotive Engines	2	0	2	3
		otal	Cre	dits	23	<u>E</u>	Professional Elective – I	١.,		_	3
				4		21DCS201P1	Design Thinking and Methodology	1	2	0	3
	Semester – V					21PDM202L 1		0	0	2	0
Course	Course		lours	-		21MEC204L 1	Fluid Dynamics Laboratory	0	0	2	1
		١.	Neel					otal	Cre	aits	20
04144 0004 7	D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L	1	Р	C		0 1 1/1				
		3	7	0	4		Semester – VI		1	- 1	_
		3	0	0	3	Course	Course		lours		
		3	0	0	3	Code	Title	Ε'	Nee ⊤	P	
21AUC302J		2	0	2	3	21CSS303T	Data Science	_		_	2 2
Е					2		Automotive Electrical and Electronic	2	0	0	
					3	21AUC303J	Systems	2	0	2	3
		0	0	2	0	21AUC304J	Finite Element Analysis	3	0	2	4
		1	0	0	0	E	Professional Elective – III	J	0	_	3
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		L	Τ	Р	С	<u> </u> -	Semester - VIII			,	
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0	Open Elective – III	otal	Cre	dits			1	otal			15
0	Open Elective – III	otal	Cre	dits		#Students have	to register either 21AUP401L or 21AUP	otal			15
0	Open Elective – III	otal	Cre	dits		#Students have	1	otal			15



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