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

5. B.Tech. in Automobile Engineering with Specialization in Automotive Electronics

5. (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

5. (b) Program Educational Objectives (PEO)

PEO – 1	To provide an overall knowledge about the application of electrical and electronics in automotive systems
PEO – 2	To make the students understand the use of sensors, actuators, signal conditioners, controls and software for automotive applications
PEO - 3	To understand the importance and procedure of fault diagnostics and data logging for automotive field.
PEO – 4	To expose the students to advanced requirements in industry like autonomous, inter and intra-vehicular communications protocols, hybrid vehicles technologies, model based system design and associated technologies
PEO – 5	To get exposure to the modern automobiles and contributing to the challenges of the society in terms of research and entrepreneurship.

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

	Mission Stmt 1	Mission Stmt 2	Mission Stmt 3	Mission Stmt 4	Mission Stmt 5
P <mark>EO</mark> - 1	3	3	2	2	3
PEO - 2	3	2	2	2	2
PEO - 3	3	3 7 1	10,000	2	1
PEO - 4	2	2	3	3	2
PEO - 5	3	2	3	3	2

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

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

	1				Pro	gram Ou	tcomes (PO)			7		Prog	Program Specific			
	1	2	- 3	4	5	6	7	- 8	9	10	11	12	Outo	comes (P	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	3	2	1	3	2	1	2	3	3	3	2	2	2	2	3		
PEO - 5	3	2	2	2	2	3	3	3	3	2	2	2	2	2	2		

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

PSO - Program Specific Outcomes (PSO)

PSO - 1	Students gain knowledge and expertise in the field of electrical and electronics related to automotive systems
PSO - 2	Ability to understand recent technological developments in Automotive electronics and develop products to cater the societal and industrial needs
PSO - 3	Assess society needs and develop constructive and creative solutions for problems related to Automotive Electronics

5. (e) Program Structure: B.Tech. in Automobile Engineering with Specialization in Automotive Electronics

	Humanities & Social Sciences										
	including Management Courses (H)					Course	Course		lours		
Course	Course		lours			Code	Title	_ \	Nee		_
Code	Title	-	Weel T	P	С		Physics: Electromagnetic Theory,	L	ı	Р	С
21I FH101T	Communicative English	2	1	0	3		Quantum Mechanics, Waves and Optics	3	1	2	5
21LEH102T		_			U		Chemistry	3	1	2	5
21LEH103T		1					Calculus and Linear Algebra	3	1	0	4
21LEH104T							Advanced Calculus and Complex	3	1	0	1
21LEH105T	Japanese	2	1	0	3	ZIMABIUZI	Analysis	3	1	U	4
21LEH106T							Transforms and Boundary Value	3	1	0	4
21LEH107T							Problems				
21LEH108T							Numerical Methods	3	1	0	4
	Philosophy of Engineering	1	0	2	2		Biology	2	0	0	2
	Social Engineering	2	0	0	2	21MAB3011	Probability and Statistics	3	7	0	4
21GNH4011	Behavioral Psychology	2	1	0	3			otai	Cre	aits	32
		otai	Cre	aits	13	~					
	Engineering Science Courses (S)						Professional Core Courses (C)				
Course	Course		Hours			Course	Course		lours		
Code	Title	_	Wee			Code	Title	١ ١	Nee		
		L	T	Р	C			L	1	Р	C
21MES101L		0	0	4	2	21CSC206T	Artificial Intelligence Applied Thermal Engineering	3	0	0	3
21MES102L ⁻¹ 21EES101T	Engineering Graphics and Design Electrical and Electronics Engineering	3	1	0	4	21AUC2011 2 21AUC202J		2	0	2	3
21CSS101J	Programming for Problem Solving	3	0	2	4		Manufacturing Technology for				
21AUS101L 1		0	0	2	1	21AUC203J	Automotive Engineers	2	0	2	3
21DCS201P		1	2	0	3	21MEC202T 2	Mechanics of Solids	3	1	0	4
21MES101T		3	1	0	4	21MEC203T		3	0	0	3
21CSS303T	Data Science	2	0	0	2		Material testing Laboratory	0	0	2	1
			l Cre	dits	22		Fluid Dynamics Laboratory	0	0	2	1
					Ξ		Fluid Mechanics and Machinery	3	0	0	3
Project Wo	rk, Seminar, Internship in Industry / Hig	her	Tecl	hnic	al	21MEC206T	Kinematics and Dynamics of Machines	3	0	0	3
	Institutions (P)					21AUC301T 2	CAD Analysis for Automotive Engineers	3	0	0	3
Course	Course		ours	/		21AUC302J	Vehicular Structures and Driveline	2	0	2	3
Code	Title	. //	/eek	_		21/40/03/02/0	Systems		U		J
04.0 NID0041. 1		L		Р	C	21AUC301L 1	Design of Automotive Systems	0	0	2	1
21GNP301L ¹ 21AUP302L ¹	Community Connect	0	0	2	1		Laboratory				
21AUP302L 1		3	0	0	3	21AUC303J	Automotive Electrical and Electronic Systems	2	0	2	3
	Major Project	0		30	15	21AUC305J	Automotive Microcontrollers	3	0	2	4
	Major Project	0		20	10	21AUC401J		2	0	2	3
21AUP403L		0		10	5	21AUC403J	Automotive Fault Diagnostics	2	0	2	3
		otal	Cred	-	19	2.7.100.7000			Cre		
	71-11	D	Α	-			7 /				
	Open Elective Courses (O)	13					Non Credit Courses (M)		10		
	(Any 3 Courses)					Course	Course		lours Wee		
_	, , , , , , , , , , , , , , , , , , ,	H	lours	:/		Code	Title	Т	ΙΤ	Р	С
Course	Course		Weel			21PDM101L 1	Professional Skills and Practices	0	0	2	Ŭ
Code	Title	L	Τ	Р	С	21PDM102L ¹		0	0	2	
21AUO101T	Hybrid and Electric Vehicles	3	0	0	3	21PDM201L 1		0	0	2	
21AUO102T	Renewable Sources of Energy	3	0	0	3	21PDM202L 1		0	0	2	U
	Special Type of Vehicles	3	0	0	3		Analytical and Logical Thinking Skills	0	0	2	
	Fuel Cells and Applications	3	0	0	3	21PDM302L 1	Employability Skills and Practices	0	0	2	
21AUO105T	Transport Management	3	0	0	3		Environmental Science	1	0	0	0
21AUO106T	Composite Materials for Automotive	3	0	0	3		Constitution of India	1	0	0	0
	Applications 15 to 15		Ľ	_				1	0	0	0
	Non-Destructive Testing and Evaluation	3	0	0	3	21LEM201T 1	Professional Ethics	1	0	0	0
	Advanced Engine Technology New Product Development	3	0	0	3	041 51400074	Universal Human Values-II:		,	^	2
	New Product Development Automotive standards and regulations	3	0	0	3	21LEM202T ¹	Understanding Harmony and Ethical Human Conduct	2	1	0	3
	Automotive Sciences	3	0	0	3	21LEM301T ¹	Indian Art Form	1	0	0	0
	Intelligent Vehicle Technology	3	0	0	3		Indian Traditional Knowledge	1	0	0	0
ZIMOUTIZI			Cre				Physical and Mental Health using Yoga	1	U	U	U
		otal	OI C	uno	03		National Service Scheme	0	0	2	0
							National Cadet Corps	1	U	_	J

21GNM104L 1	National Sports Organization					Ī
	To	tal	Cre	dits	03	ı

	Professional Elective Courses (E) (Any 6 Courses)						Professional Elective Courses (E)				
Course Code	Course Title		Hours / Week			Course Code	Course		lours Nee		
	ritie	L T P C				Code	Title		T	Ρ	С
21AUE202T	Sensors Actuators and Signal Conditioners	3	0	0	3	21AUE411T	Power Electronics for Electric Vehicle Application	3	0	0	3
	Analog and Digital circuits for Automotive Applications	2	0	2	3	21AUE412T	State Space Analysis and Digital Control System	3	0	0	3
21AUE311T	Principles of Linear Systems and	3	0	n	3	21AUE413T	Model Based System Design	3	0	0	3
	Signals Automotive Infotronics	3	0	0	3	21AUE414J	Modelling and Control of Electric and Hybrid Vehicles	2	0	2	3
21AUE313T	Artificial Neural Networks and Fuzzy	3	0	^	3	21AUE415T	Vehicle Stability and Control Systems	3	0	0	3
ZIAUESISI	Logic	3	U	U	3	21AUE416T	Electronic Engine Management System	3	0	0	3
21AUE314T	CAD and Simulation for Electronics	3	0	0	3		Т	otal	Cre	dits	18
21AUE317J	Automotive Control Engineering	2	0	2	3	- 11-11					



5. (f) Programme Articulation: B.Tech. in Automobile Engineering with Specialization in Automotive Electronics

					P	rogra	m Ou	tcome	s (PO))				PSO				
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3		
Course Code	Course Name	Engineering Knowledge	Problem Analysis	Design/development of solutions	of .	Modern Tool Usage	The engineer and society	Environment & Sustainability	Ethics	ndividual & Team Work	Sommunication 5	Project Mgt. & Finance	Life Long Learning	PSO-1	PSO-2	PSO-3		
21AUS11I	Artifact Dissection Lab	3	3	_ 0	0 0			-					3	2	1	1		
	Applied Thermal Engineering	1.2	1.6	0.6				0.4	-				Ŭ	1.6	1.2	0.6		
244110221	Manufacturing Technology for Automotive Engineers	3	3	'n		7		0.8			٠.,			3	3			
	Automotive Engines	1.6	0.6	0.2	0.8	0.6	7	0.8			1	7		1.6	0.6	0.2		
21AUC31T	CAD Analysis for Automotive Engineers	3	1	2	1	1.8	44		4					3	0.6			
	Design of Automotive Systems laboratory	2.6	1.8	2.6	2.4	1.8		-		4		4		2.6	1.8	2.6		
21AUC32J	Vehicular Structures and Driveline Systems	3		0.8	0.6			0.4	7.4			7		3				
21AUC33J	Automotive Electrical and Electronics	3	3	1	1	1.8				1	1		1	3	3	1		
	Vehicle Dynamics	3	3			3			ď		1		-	3	2			
21AUC35J	Automotive Micro controllers	3	2.2	0.8	1.2	1.6				_ 1	1		2	2.4	1.2			
	Automotive Fault Diagnosis	3	2	1	1	3				ď	ď		1.2	1.8				
21AUE22T	Sensors Actuators and Signal conditioners	3	3	1.8	F	1.8	۳.						1	2.8	0.2			
	Analog and Digital circuits for Automotive Applications	3	2.6	1	1.5	2	ы() S			1	1	1	1	2.4	0.4			
2 <mark>1AUE311</mark> T	Principles of Linear Systems and Signals	3	3			7						-		3				
21AUE312T	Automotive Infotronics	3	2.8			1.8			F				-	2.4	0.4	0.4		
	Artificial Neural Networks and Fuzzy Logic	3	3	100	15				7	100				3				
21AUE314T	CAD and Simulation for Electronics	3		2.2	17	ľ	- 1		*				Į	1.2	1.6			
21AUE317J	Automotive control engineering	3	2	2.6		ŀ.	8	72.	1					3				
21AUE411T	Power Electronics for Electric Vehicle Application	3	1.8	1.6	0.8			100	1	137				3		2		
<mark>21AUE41</mark> 2T	State Space Analysis and Digital Control System	3	3	2	2	4	100			2			1	3	1			
21AUE413T	Model Based System Design	3	2.8	L I		1.8	-71							0.6	2.8	0.6		
2 <mark>1AUE414</mark> J	Modelling and Control of Electric and Hybrid Vehicles	3	2.6	2.6	7	1.4					Ţ	4	\pm	3				
	Vehicle Stability and Control Systems	3	3								7			1.2	1.8			
21A <mark>UE41</mark> 6T	Electronic Engine Management System	3	1.2	2		1						4	1.4	3				
21AUP302T		3	2	2	. 3					7.	- 2		2					
21AUP303L		3	-3	3	3	3	2	2	3	3	3	3	3	3	3	3		
21AUP401L	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	<u>Internship</u>	3	3	3	3	3	_3	3	3	3	3	3	3	3	3	3		
	Program Average	2.9	2.3	1.3	0.7	1.2	0.3	0.4	0.3	0.4	0.5	0.3	0.8	2.4	1.2	0.6		

5. (g) Implementation Plan: B.Tech. in Automobile Engineering with Specialization in Automotive Electronics

	Semester – I				Semester – II						
		Н	ours	/		0		Н	lours	s /	
Course	Course		Veel			Course	Course		Nee		
Code	Title	L	Τ	Ρ	С	Code	Title	L	Τ	Р	С
21LEH101T	Communicative English	2	1	0	3	21LEH102T	Chinese				
21MAB101T	Calculus and Linear Algebra	3	1	0	4	21LEH103T	French				
	Physics: Electromagnetic Theory,					21LEH104T	German				
21PYB101J	Quantum Mechanics, Waves and	3	1	2	5	21LEH105T	Japanese	2	1	0	3
	Optics						Korean	1			
21MES102L 1		0	0	4	2		Spanish	1			
21EES101T		3	1	0	4		Russian	1			
21AUS101L 1	0 0	0	0	2	1		Philosophy of Engineering	1	0	2	2
21CYM101T 1		1	0	0	0		Advanced Calculus and Complex				
21PDM101L 1		0	0	2	0		Analysis	3	1	0	4
21LEM101T 1		1	0	0	0		Chemistry	3	1	2	5
-		otal	Cre	dits	19		Biology	2	0	0	2
							Programming for Problem Solving	3	0	2	4
	Semester – III			,			Engineering Mechanics	3	1	0	4
Course	Course		lours				Basic Civil and Mechanical Workshop	0	0	4	2
Code	Title	L.\	Nee				General Aptitude*	0	0	2	0
		<u> </u> L	Τ	Р	С		Physical and Mental Health using Yoga	U	J	<u> </u>	0
21MAB201T	Transforms and Boundary Value	3	1	0	4		National Service Scheme				
	Problems	Ļ					National Cadet Corps	0	0	2	0
21MEC202T 2		3	1	0	4		National Sports Organization	1			
21MEC203T		3	0	0	3	ZIGINIVIIU4L		otal	C=0	dita	26
21AUC201T ²		3	0	0	3			otai	Cre	uits	20
21AUC203J	Manufacturing Technology for	2	0	2	3		Semester – IV				
	Automotive Engineers							I	lour	s /	
21PDH209T ¹	0 0	2	0	0	2	Course	Course		Wee		
21LEM201T ¹		1	0	0	0	Code	Title	L	T	Р	С
21PDM201L 1		0	0	2	0	21MAB202T	Numerical Methods	3	1	0	4
	Universal Human Values-II:						Artificial Intelligence	2	1	0	3
21LEM202T ¹	,	2	1	0	3		Fluid Mechanics and Machinery	3	0	0	3
	Human Conduct						Automotive Engines	2	0	2	3
21MEC202L ¹		0	0	2	1		Professional Elective – I		U		3
		otal	Cre	dits	23		Design Thinking and Methodology	1	2	0	3
_	4.5						Critical and Creative Thinking Skills*	0	0	2	0
	Semester – V	1			ı		Fluid Dynamics Laboratory	_	0	2	1
	Course		ALIFE	3 /		LIMEOLOIL		()			,
Course	Course		ours				T	0 otal	Cre		20
Course Code	Course Title		Nee					otal	Cre		20
Code	Title	۱ L	Vee T	Р	С		Semester – VI	•	Cre		20
Code 21MAB301T	Title Probability and Statistics	L 3	Vee T	P 0	4	Cauras	Semester – VI	otal	Cre	dits	20
Code 21MAB301T 21MEC206T	Title Probability and Statistics Kinematics and Dynamics of Machines	L 3 3	Vee T 1	P 0 0	4	Course	Semester – VI Course	otal	1	dits	20
Code 21MAB301T 21MEC206T 21AUC301T ²	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers	L 3	Vee T	P 0	4	Course Code	Semester – VI	otal	lours	dits	20
21MAB301T 21MEC206T 21AUC301T ²	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers Vehicular Structures and Driveline	L 3 3	Vee T 1	P 0 0	3 3		Semester – VI Course	otal	lours Nee	dits	
Code 21MAB301T 21MEC206T 21AUC301T 2 21AUC302J	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers Vehicular Structures and Driveline Systems	L 3 3	Vee T 1 0	P 0 0	3 3	Code 21CSS303T	Semester – VI Course Title	otal	lours Wee	dits s / k P	C 2
Code 21MAB301T 21MEC206T 21AUC301T 21AUC302J E	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers Vehicular Structures and Driveline Systems Professional Elective – II	L 3 3	Vee T 1 0	P 0 0	3 3 3	Code	Semester – VI Course Title Data Science	otal	lours Wee	dits s / k	С
Code 21MAB301T 21MEC206T 21AUC301T 21AUC302J E O	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers Vehicular Structures and Driveline Systems Professional Elective – II Open Elective – I	L 3 3 3 2	Nee T 1 0 0 0 0	P 0 0 0	4 3 3 3 3	Code 21CSS303T	Semester – VI Course Title Data Science Automotive Electrical and Electronic Systems Automotive Microcontrollers	otal	lours Wee	dits s / k P	C 2 3 4
Code 21MAB301T 21MEC206T 21AUC301T 21AUC302J E O 21PDM301L 1	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers Vehicular Structures and Driveline Systems Professional Elective – II Open Elective – I Analytical and Logical Thinking Skills*	L 3 3 3 2	Nee T 1 0 0 0 0 0 0 0 0	P 0 0 0 2	3 3 3 3 0	Code 21CSS303T 21AUC303J	Semester – VI Course Title Data Science Automotive Electrical and Electronic Systems	otal H	lours Wee T 0	dits s / k P 0	C 2 3
Code 21MAB301T 21MEC206T 21AUC301T 21AUC302J E O 21PDM301L 21LEM301T	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers Vehicular Structures and Driveline Systems Professional Elective – II Open Elective – I Analytical and Logical Thinking Skills* Indian Art Form	L 3 3 3 2	Nee T 1 0 0 0 0	P 0 0 0	4 3 3 3 3	Code 21CSS303T 21AUC303J 21AUC305J	Semester – VI Course Title Data Science Automotive Electrical and Electronic Systems Automotive Microcontrollers	otal H	lours Wee T 0	dits s / k P 0	C 2 3 4
Code 21MAB301T 21MEC206T 21AUC301T 21AUC302J E O 21PDM301L 21LEM301T 21AUC3011	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers Vehicular Structures and Driveline Systems Professional Elective – II Open Elective – I Analytical and Logical Thinking Skills* Indian Art Form Design of Automotive Systems	L 3 3 3 2 0 1	Nee T 1 0 0 0 0 0 0 0 0	P 0 0 2 2	3 3 3 3 0	Code 21CSS303T 21AUC303J 21AUC305J E	Semester – VI Course Title Data Science Automotive Electrical and Electronic Systems Automotive Microcontrollers Professional Elective – III Professional Elective – IV	otal H	lours Wee T 0	dits s / k P 0	C 2 3 4 3 3 3
Code 21MAB301T 21MEC206T 21AUC301T 21AUC302J E O 21PDM301L 21LEM301T 21AUC301L	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers Vehicular Structures and Driveline Systems Professional Elective – II Open Elective – I Analytical and Logical Thinking Skills* Indian Art Form Design of Automotive Systems Laboratory	L 3 3 2 0 1	Vee T 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 2 2 2 0	4 3 3 3 3 0 0	Code 21CSS303T 21AUC303J 21AUC305J E E	Semester – VI Course Title Data Science Automotive Electrical and Electronic Systems Automotive Microcontrollers Professional Elective – III Professional Elective – IV Project	otal	lours Wee T 0	dits S / k P 0 2	C 2 3 4 3
Code 21MAB301T 21MEC206T 21AUC301T 21AUC302J E O 21PDM301L 21LEM301T 21AUC301L	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers Vehicular Structures and Driveline Systems Professional Elective – II Open Elective – I Analytical and Logical Thinking Skills* Indian Art Form Design of Automotive Systems Laboratory Community Connect	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Vee T 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 2 2 0 2 2	3 3 3 3 0 0 1	Code 21CSS303T 21AUC303J 21AUC305J E E 21AUP302L 21AUP302L	Semester – VI Course Title Data Science Automotive Electrical and Electronic Systems Automotive Microcontrollers Professional Elective – III Professional Elective – IV Project	H	Vee T 0 0 0	dits P 0 2 2 6 6	C 2 3 4 3 3 3
Code 21MAB301T 21MEC206T 21AUC301T 21AUC302J E O 21PDM301L 21LEM301T 21AUC301L	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers Vehicular Structures and Driveline Systems Professional Elective – II Open Elective – I Analytical and Logical Thinking Skills* Indian Art Form Design of Automotive Systems Laboratory Community Connect	L 3 3 2 0 1	Vee T 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 2 2 0 2 2	3 3 3 3 0 0 1	Code 21CSS303T 21AUC303J 21AUC305J E E 21AUP302L ¹ 21AUP303T ¹	Semester – VI Course Title Data Science Automotive Electrical and Electronic Systems Automotive Microcontrollers Professional Elective – III Professional Elective – IV Project MOOC Open Elective – II	H	Vee T 0 0 0	dits P 0 2 2 6 6	C 2 3 4 3 3 3 3
Code 21MAB301T 21MEC206T 21AUC301T 21AUC302J E O 21PDM301L 21LEM301T 21AUC301L	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers Vehicular Structures and Driveline Systems Professional Elective – II Open Elective – I Analytical and Logical Thinking Skills* Indian Art Form Design of Automotive Systems Laboratory Community Connect	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Vee T 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 2 2 0 2 2	3 3 3 3 0 0 1	Code 21CSS303T 21AUC303J 21AUC305J E E 21AUP302L 21AUP303T O	Semester – VI Course Title Data Science Automotive Electrical and Electronic Systems Automotive Microcontrollers Professional Elective – III Professional Elective – IV Project MOOC Open Elective – II	H \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Vee T 0 0 0 0	dits s / k P 0 2 2 6 0	C 2 3 4 3 3 3 3 3
Code 21MAB301T 21MEC206T 21AUC301T 21AUC302J E O 21PDM301L 21LEM301T 21AUC301L 21GNP301L 1	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers Vehicular Structures and Driveline Systems Professional Elective – II Open Elective – I Analytical and Logical Thinking Skills* Indian Art Form Design of Automotive Systems Laboratory Community Connect T Semester – VII	L 3 3 3 2 0 1 0 0 0 0 0 0 0 0	Vee T 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 0 2 2 2 0 2 2 dits	3 3 3 3 0 0 1	Code 21CSS303T 21AUC303J 21AUC305J E E 21AUP302L 1 21AUP303T 1 O 21PDM302L 1	Semester – VI Course Title Data Science Automotive Electrical and Electronic Systems Automotive Microcontrollers Professional Elective – III Professional Elective – IV Project MOOC Open Elective – II Employability Skills and Practices Indian Traditional Knowledge	H	Vee T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	dits P	C 2 3 4 3 3 3 0 0 0
Code 21MAB301T 21MEC206T 21AUC301T ² 21AUC302J E O 21PDM301L ¹ 21AUC301L ¹ 21AUC301L ¹ Course	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers Vehicular Structures and Driveline Systems Professional Elective – II Open Elective – I Analytical and Logical Thinking Skills* Indian Art Form Design of Automotive Systems Laboratory Community Connect T Semester – VII Course	L 3 3 3 2 0 1 0 0 otal H	Nee T 1 0 0 0 0 0 Cre	P 0 0 0 2 2 2 dits	3 3 3 3 0 0 1	Code 21CSS303T 21AUC303J 21AUC305J E E 21AUP302L 1 21AUP303T 1 O 21PDM302L 1	Semester – VI Course Title Data Science Automotive Electrical and Electronic Systems Automotive Microcontrollers Professional Elective – III Professional Elective – IV Project MOOC Open Elective – II Employability Skills and Practices Indian Traditional Knowledge	H \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Vee T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	dits P	C 2 3 4 3 3 3 0 0 0
Code 21MAB301T 21MEC206T 21AUC301T 21AUC302J E O 21PDM301L 21LEM301T 21AUC301L 21GNP301L 1	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers Vehicular Structures and Driveline Systems Professional Elective – II Open Elective – I Analytical and Logical Thinking Skills* Indian Art Form Design of Automotive Systems Laboratory Community Connect T Semester – VII	L 3 3 3 2 0 1 0 0 otal H	T	P 0 0 0 2 2 2 0 2 2 dits	4 3 3 3 3 0 0 1 1 21	Code 21CSS303T 21AUC303J 21AUC305J E E 21AUP302L 1 21AUP303T 1 O 21PDM302L 1	Semester – VI Course Title Data Science Automotive Electrical and Electronic Systems Automotive Microcontrollers Professional Elective – III Professional Elective – IV Project MOOC Open Elective – II Employability Skills and Practices Indian Traditional Knowledge	H V L 2 2 3 0 0 1 Total	Vee T 0 0 0 0 Cree	dits S / k P 0 2 2 0 dits	C 2 3 4 3 3 3 0 0 0
Code 21MAB301T 21MEC206T 21AUC301T 21AUC302J E	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers Vehicular Structures and Driveline Systems Professional Elective – II Open Elective – I Analytical and Logical Thinking Skills* Indian Art Form Design of Automotive Systems Laboratory Community Connect T Semester – VII Course Title	0 1 0 0 1 0 0 1 L	Vee T 1 0 0 0 0 Cre Ours Vee	P 0 0 0 2 2 2 0 2 2 dits	4 3 3 3 3 0 0 1 1 21	Code 21CSS303T 21AUC303J 21AUC305J E 21AUP302L 1 21AUP303T 1 O 21PDM302L 1 21LEM302T 1	Semester – VI Course Title Data Science Automotive Electrical and Electronic Systems Automotive Microcontrollers Professional Elective – III Professional Elective – IV Project MOOC Open Elective – II Employability Skills and Practices Indian Traditional Knowledge T Semester - VIII	H	Vee T 0 0 0 0 Cre	dits P 0 2 2 0 dits	C 2 3 4 3 3 3 0 0 0
Code 21MAB301T 21MEC206T 21AUC301T 21AUC302J E	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers Vehicular Structures and Driveline Systems Professional Elective – II Open Elective – I Analytical and Logical Thinking Skills* Indian Art Form Design of Automotive Systems Laboratory Community Connect T Semester – VII Course Title Behavioral Psychology	L 3 3 3 2	Nee T 1 0 0 0 0 0 Cre T 1 1 1 1 1 1 1 1 1	2 0 2 2 dits	4 3 3 3 0 0 1 1 21	Code 21CSS303T 21AUC303J 21AUC305J E 21AUP302L 1 21AUP303T 1 O 21PDM302L 1 21LEM302T 1	Semester – VI Course Title Data Science Automotive Electrical and Electronic Systems Automotive Microcontrollers Professional Elective – III Professional Elective – IV Project MOOC Open Elective – II Employability Skills and Practices Indian Traditional Knowledge	H	Vee T 0 0 0 0 Cre	dits P 0 2 2 0 dits	C 2 3 4 3 3 3 0 0 0 21
Code 21MAB301T 21MEC206T 21AUC301T ² 21AUC302J E O 21PDM301L ¹ 21LEM301T ¹ 21AUC301L ¹ Course Code 21GNH401T 21AUC401J	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers Vehicular Structures and Driveline Systems Professional Elective – II Open Elective – I Analytical and Logical Thinking Skills* Indian Art Form Design of Automotive Systems Laboratory Community Connect T Semester – VII Course Title Behavioral Psychology Vehicle Dynamics	L 3 3 3 2 0 1 0 0	Nee T 1 0 0 0 0 0 Cre T 1 0 0 T T T T T T T	2 0 2 2 2 dits	3 3 3 3 0 0 1 1 21	Code 21CSS303T 21AUC303J E E 21AUP302L 21AUP302L 21PDM302L 21PDM302L Course Code	Semester - VI Course Title Data Science Automotive Electrical and Electronic Systems Automotive Microcontrollers Professional Elective - III Professional Elective - IV Project MOOC Open Elective - II Employability Skills and Practices Indian Traditional Knowledge T Semester - VIII Course Title	H	Ourseleast	6 0 2 2 0 dits	C 2 3 4 3 3 3 0 0 21
Code 21MAB301T 21MEC206T 21AUC301T ² 21AUC302J E	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers Vehicular Structures and Driveline Systems Professional Elective – II Open Elective – I Analytical and Logical Thinking Skills* Indian Art Form Design of Automotive Systems Laboratory Community Connect T Semester – VII Course Title Behavioral Psychology Vehicle Dynamics Automotive Fault Diagnostics	L 3 3 3 2	Nee T 1 0 0 0 0 0 Cre T 1 1 1 1 1 1 1 1 1	2 0 2 2 dits	4 3 3 3 0 0 1 1 21	Code 21CSS303T 21AUC303J 21AUC305J E 21AUP302L¹ 21AUP303T¹ O 21PDM302L¹ 21LEM302T¹ Course Code 21AUP401L	Semester - VI Course Title Data Science Automotive Electrical and Electronic Systems Automotive Microcontrollers Professional Elective - III Professional Elective - IV Project MOOC Open Elective - II Employability Skills and Practices Indian Traditional Knowledge T Semester - VIII Course Title Major Project	H	Ours Vee T 0 0 0 0 Cre Ours Veek T 0	6 0 2 2 0 dits	C 2 3 4 3 3 3 0 0 0 21
Code 21MAB301T 21MEC206T 21AUC301T ² 21AUC302J E O 21PDM301L ¹ 21LEM301T ¹ 21AUC301L ¹ 21GNP301L ¹ Course Code 21GNH401T 21AUC401J 21AUC403J E	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers Vehicular Structures and Driveline Systems Professional Elective – II Open Elective – I Analytical and Logical Thinking Skills* Indian Art Form Design of Automotive Systems Laboratory Community Connect T Semester – VII Course Title Behavioral Psychology Vehicle Dynamics Automotive Fault Diagnostics Professional Elective – V	L 3 3 3 2 0 1 0 0	Nee T 1 0 0 0 0 0 Cre T 1 0 0 T T T T T T T	2 0 2 2 2 dits	4 3 3 3 0 0 1 1 21	Code 21CSS303T 21AUC303J 21AUC305J E 21AUP302L¹ 21AUP303T¹ O 21PDM302L¹ 21LEM302T¹ Course Code 21AUP401L 21AUP402L	Semester - VI Course Title Data Science Automotive Electrical and Electronic Systems Automotive Microcontrollers Professional Elective - III Professional Elective - IV Project MOOC Open Elective - II Employability Skills and Practices Indian Traditional Knowledge T Semester - VIII Course Title Major Project Major Project	H	lours Wee T 0 0 0 0 Cre	6 0 2 0 dits	C 2 3 4 3 3 3 0 0 0 21 C 15 10
Code 21MAB301T 21MEC206T 21AUC301T ² 21AUC302J E O 21PDM301L ¹ 21LEM301T ¹ 21AUC301L ¹ 21GNP301L ¹ Course Code 21GNH401T 21AUC401J 21AUC403J E E	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers Vehicular Structures and Driveline Systems Professional Elective – II Open Elective – I Analytical and Logical Thinking Skills* Indian Art Form Design of Automotive Systems Laboratory Community Connect T Semester – VII Course Title Behavioral Psychology Vehicle Dynamics Automotive Fault Diagnostics Professional Elective – V Professional Elective – VI	L 3 3 3 2 0 1 0 0	Nee T 1 0 0 0 0 0 Cre T 1 0 0 T T T T T T T	2 0 2 2 2 dits	4 3 3 3 0 0 1 1 21	Code 21CSS303T 21AUC303J 21AUC305J E 21AUP302L¹ 21AUP303T¹ O 21PDM302L¹ 21LEM302T¹ Course Code 21AUP401L	Semester - VI Course Title Data Science Automotive Electrical and Electronic Systems Automotive Microcontrollers Professional Elective - III Professional Elective - IV Project MOOC Open Elective - II Employability Skills and Practices Indian Traditional Knowledge T Semester - VIII Course Title Major Project Major Project Internship#	H	lours Wee T 0 0 0 0 Cre T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 0 2 0 dits	C 2 3 4 3 3 3 0 0 21 C 15 10 5
Code 21MAB301T 21MEC206T 21AUC301T ² 21AUC302J E O 21PDM301L ¹ 21LEM301T ¹ 21AUC301L ¹ 21GNP301L ¹ Course Code 21GNH401T 21AUC401J 21AUC403J E E	Title Probability and Statistics Kinematics and Dynamics of Machines CAD Analysis for Automotive Engineers Vehicular Structures and Driveline Systems Professional Elective – II Open Elective – I Analytical and Logical Thinking Skills* Indian Art Form Design of Automotive Systems Laboratory Community Connect T Semester – VII Course Title Behavioral Psychology Vehicle Dynamics Automotive Fault Diagnostics Professional Elective – V Professional Elective – VI Open Elective – III	L 3 3 3 2 0 1 0 0	Vee T 0 0 0 0 0 0 0 0 0	P 0 0 0 0 2 2 0 2 2 ddits	4 3 3 3 0 0 1 1 21 C 3 3 3 3 3 3 3 3 3	Code 21CSS303T 21AUC303J 21AUC305J E 21AUP302L¹ 21AUP303T¹ O 21PDM302L¹ 21LEM302T¹ Course Code 21AUP401L 21AUP402L	Semester - VI Course Title Data Science Automotive Electrical and Electronic Systems Automotive Microcontrollers Professional Elective - III Professional Elective - IV Project MOOC Open Elective - II Employability Skills and Practices Indian Traditional Knowledge T Semester - VIII Course Title Major Project Major Project Internship#	H	lours Wee T 0 0 0 0 Cre T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 0 2 0 dits	C 2 3 4 3 3 3 0 0 21 C 15 10 5



SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University u/s 3 of UGC Act, 1956)

Kattankulathur, Chengalpattu District 603203, Tamil Nadu, India