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

36. B.Tech. in Electrical and Electronics Engineering

36. (a) Mission of the Department

	To educate the student to become better practicing engineers to meet global excellence.
	To provide better environment through latest developments in electrical engineering involving problem solving, design, practice and training.
Mission Stmt – 3	To motivate the graduates to become a good leader, designer and researcher through industry-oriented trainings with social and ethical responsibilities.

36. (b) Program Educational Objectives (PEO)

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PEO – 1	Graduates are in a position to apply their knowledge acquired in Mathematics, Basic Sciences and Electrical and Electronics Engineering courses, to the solution of complex problems encountered in the modern Engineering practice.
PEO – 2	Graduates learn and adapt themselves to the constantly evolving technology by pursuing higher studies.
PEO – 3	Graduates are better employable and achieve success in their chosen areas of Electrical and Electronics Engineering and related fields.
PEO - 4	Graduates are good leaders and managers by effectively communicating at both technical and interpersonal levels.

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

	Mission Stmt 1	Mission Stmt 2	Mission Stmt 3
PEO - 1	3	2	1
PEO - 2	2	-3	1_
PEO - 3	2	_2	1 -
PEO - 4	1	7	3

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

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

			200	177	Pro	gram Ou	tcomes (PO)	F V				Prog	gram Spe	ecific
	1	2	3	4	5	6	7	8	9	10	11	12	Out	comes (P	PSO)
	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	PS0-1	PSO-2	PSO-3
PEO - 1	3	3	3	1	$\triangle D$	7.7	1	$^{\circ}A$ i) <u>. </u>	T	ATY	1	3	- /	-
PEO - 2		Y.	-	3	3	-	2		•	بطينا		3		3	-
PEO - 3	, - T	3	3	-	2	3	-	3	2	-	2	1	2	2	-
PEO - 4	-		-	-	-	-	-	-	3	3	3	, O	-	-	3

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

PSO - Program Specific Outcomes (PSO)

PSO - 1	Apply principles of engineering and practical skills to design, develop and validate real time electrical systems.
PSO - 2	Ability to learn and adapt the evolving technological changes through multidisciplinary activities.
PSO - 3	Gain knowledge on professional values and ethics for sustainable development in the energy sector.

36. (e) Program Structure: B.Tech. in Electrical and Electronics Engineering

		1 Electronics Engineering									
	Humanities & Social Sciences						Basic Science Courses (B)				
including Management Courses (H)						Course	Course		ours		
Course	Course		ours			Code	Title	١.	Veel		1
Code	Title	٧	Vee					L	Т	Р	С
		L	Τ	Р	С	21PYB101J	Physics: Electromagnetic Theory,	3	1	2	5
	Communicative English	2	1	0	3		Quantum Mechanics, Waves and Optics				
	Chinese					21CYB101J	Chemistry	3	1	2	5
	French					21MAB101T		3	1	0	4
	German					21MAB102T	Advanced Calculus and Complex	3	1	0	4
21LEH105T	Japanese	2	1	0	3		Analysis	Ľ	•	Ľ	<u> </u>
21LEH106T	Korean					21MAB209T	Transforms and Computational	3	1	0	4
	Spanish						Techniques			-	_
	Russian					21MAB301T	Probability and Statistics	3	1	0	4
	Philosophy of Engineering	1	0	2	2		Discrete Mathematics	3	1	0	4
	Social Engineering	2	0	0	2	21BTB103T	Biology	2	0	0	2
21GNH401T	Behavioral Psychology	2	1	0	3		То	otal	Cre	dits	32
	To	otal	Cre	dits	13						
	Engineering Science Courses (S)						Professional Core Courses (C)				
		Н	ours	s/				Н	ours	:/	
Course	Course		Vee			Course	Course		Veel		
Code	Title	L	Т	Р	С	Code	Title	L	T	P	С
21MES101L 1	Basic Civil and Mechanical Workshop	0	0	4	2	21EEC101.I	Electric Circuits	2	0	2	3
	Engineering Graphics and Design	0	0	4	2		Analog Electronics	3	0	2	4
	Electrical and Electronics Engineering	3	1	0	4		Electromagnetic Theory	2	1	0	3
	Programming for Problem Solving	3	0	2	4		Electrical Machines - I	2	0	2	3
	Applied Engineering Mechanics	3	0	0	3		Digital System Design	3	0	2	4
	Design Thinking and Methodology	1	2	0	3		Electrical Machines - II	2	0	2	3
	Data Science	2	0	0	2		Artificial Intelligence	2	1	0	3
270000007		otal	١	-			Control Systems	2	0	2	3
	· ·	Jai	CIE	uito	20				0		3
	Non Credit Courses (M)						Sensors and Instruments	2	0	2	
	, ,	Н	our	s/			Power Electronics	3	0	2	4
Course	Course		Nee				Digital Signal Processing	2	1	0	3
Code	Title	L	Τ	Р	С		Power System - I	2	1	0	3
21PDM101L 1	Professional Skills and Practices	0	0	2			Power System - II	3	0	2	4
	General Aptitude	0	0	2		21EEC305P 1	Microcontroller	1	0	4	3
	Verbal Reasoning	0	0	2			To	otal	Cre	dits	46
	Critical and Creative Thinking Skills	0	0	2	0		Open Elective Courses (O)				
	Analytical and Logical Thinking Skills	0	0	2			(Any 3 courses)				
	Employability Skills and Practices	0	0	2		_		Н	ours	7	Г
	Environmental Science	1	0	0	0	Course	Course		Veel		
	Constitution of India	1	0	0	0	Code	Title	_		Р	С
	Universal Human Values – Introduction	1	0	0	0	045500045					
	D (' 150'	1				21FFO301 I	F-mobility	<u>1</u>	0	0	.3
			Λ				E-mobility Wearable Technology	3	0		
21LEM201T ¹	Professional Ethics Lipivoreal Human Values II	_	0	0	0	21EEO302T	Wearable Technology	3	0	0	3
21LEM201T ¹	Universal Human Values-II.		0	0	0	21EEO302T 21EEO303T	Wearable Technology E-waste Management	3 3	0	0	3
21LEM201T ¹ 21LEM202T ¹	Universal Human Values-II Understanding Harmony and Ethica		1			21EEO302T 21EEO303T 21EEO304T	Wearable Technology E-waste Management Energy Efficient Practices	3 3 3	0 0 0	0 0 0	3 3 3
21LEM201T ¹ 21LEM202T ¹	Universal Human Values-II Understanding Harmony and Ethica Human Conduct	2	1	0	3	21EEO302T 21EEO303T 21EEO304T 21EEO305T	Wearable Technology E-waste Management Energy Efficient Practices Surveillance Technology	<u>უ</u> უ უ უ	0 0 0	0 0 0 0	3 3 3 3
21LEM201T ¹ 21LEM202T ¹ 21LEM301T ¹	Universal Human Values-II Understanding Harmony and Ethica Human Conduct Indian Art Form	1 2	1	0 0	3	21EEO302T 21EEO303T 21EEO304T 21EEO305T 21EEO306T	Wearable Technology E-waste Management Energy Efficient Practices Surveillance Technology Sustainable Development Practices	3 3 3 3	0 0 0 0	0 0 0 0	3 3 3 3 3
21LEM201T ¹ 21LEM202T ¹ 21LEM301T ¹ 21LEM302T ¹	Universal Human Values-II Understanding Harmony and Ethica Human Conduct Indian Art Form Indian Traditional Knowledge	2	1	0	3	21EEO302T 21EEO303T 21EEO304T 21EEO305T 21EEO306T 21EEO307T	Wearable Technology E-waste Management Energy Efficient Practices Surveillance Technology Sustainable Development Practices Clean and Green Energy	3 3 3 3 3	0 0 0 0 0	0 0 0 0 0	3 3 3 3 3
21LEM201T ¹ 21LEM202T ¹ 21LEM301T ¹ 21LEM302T ¹ 21GNM101L ¹	Universal Human Values-II Understanding Harmony and Ethica Human Conduct Indian Art Form Indian Traditional Knowledge Physical and Mental Health using Yoga	1 2	1	0 0	3	21EEO302T 21EEO303T 21EEO304T 21EEO305T 21EEO306T 21EEO307T 21EEO308T	Wearable Technology E-waste Management Energy Efficient Practices Surveillance Technology Sustainable Development Practices Clean and Green Energy Smart Cities and Communities	3 3 3 3 3 3 3	0 0 0 0 0	0 0 0 0 0 0	3 3 3 3 3 3
21LEM201T ¹ 21LEM202T ¹ 21LEM301T ¹ 21LEM302T ¹ 21GNM101L ¹ 21GNM102L ¹	Universal Human Values-II Understanding Harmony and Ethica Human Conduct Indian Art Form Indian Traditional Knowledge Physical and Mental Health using Yoga National Service Scheme	1 2	1	0 0	3	21EEO302T 21EEO303T 21EEO304T 21EEO305T 21EEO306T 21EEO308T 21EEO309T	Wearable Technology E-waste Management Energy Efficient Practices Surveillance Technology Sustainable Development Practices Clean and Green Energy Smart Cities and Communities Electrical Trading	3 3 3 3 3 3 3 3 3	0 0 0 0 0 0	0 0 0 0 0 0	3 3 3 3 3 3 3
21LEM201T ¹ 21LEM202T ¹ 21LEM301T ¹ 21LEM302T ¹ 21GNM101L ¹ 21GNM102L ¹ 21GNM103L ¹	Universal Human Values-II Understanding Harmony and Ethica Human Conduct Indian Art Form Indian Traditional Knowledge Physical and Mental Health using Yoga National Service Scheme National Cadet Corps	1 1	1 0 0	0 0 0	3 0 0	21EEO302T 21EEO303T 21EEO304T 21EEO305T 21EEO306T 21EEO307T 21EEO308T	Wearable Technology E-waste Management Energy Efficient Practices Surveillance Technology Sustainable Development Practices Clean and Green Energy Smart Cities and Communities Electrical Trading Unmanned Aerial Vehicle	3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0	0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3
21LEM201T ¹ 21LEM202T ¹ 21LEM301T ¹ 21LEM302T ¹ 21GNM101L ¹ 21GNM102L ¹ 21GNM103L ¹	Universal Human Values-II Understanding Harmony and Ethica Human Conduct Indian Art Form Indian Traditional Knowledge Physical and Mental Health using Yoga National Service Scheme National Sports Organization	1 2 1 1 - 0	1 0 0	0 0 0 0 2	3 0 0	21EEO302T 21EEO303T 21EEO304T 21EEO305T 21EEO306T 21EEO308T 21EEO309T	Wearable Technology E-waste Management Energy Efficient Practices Surveillance Technology Sustainable Development Practices Clean and Green Energy Smart Cities and Communities Electrical Trading Unmanned Aerial Vehicle	3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0	0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3
21LEM201T ¹ 21LEM202T ¹ 21LEM301T ¹ 21LEM302T ¹ 21GNM101L ¹ 21GNM102L ¹ 21GNM103L ¹	Universal Human Values-II Understanding Harmony and Ethica Human Conduct Indian Art Form Indian Traditional Knowledge Physical and Mental Health using Yoga National Service Scheme National Sports Organization	1 1	1 0 0	0 0 0 0 2	3 0 0	21EEO302T 21EEO303T 21EEO304T 21EEO305T 21EEO306T 21EEO308T 21EEO309T	Wearable Technology E-waste Management Energy Efficient Practices Surveillance Technology Sustainable Development Practices Clean and Green Energy Smart Cities and Communities Electrical Trading Unmanned Aerial Vehicle	3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0	0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3
21LEM201T ¹ 21LEM202T ¹ 21LEM301T ¹ 21LEM302T ¹ 21GNM101L ¹ 21GNM103L ¹ 21GNM103L ¹ 21GNM104L ¹	Universal Human Values-II Understanding Harmony and Ethica Human Conduct Indian Art Form Indian Traditional Knowledge Physical and Mental Health using Yoga National Service Scheme National Sports Organization	2 1 1 1 0	1 0 0	0 0 0 0 2	0 3 0 0	21EEO302T 21EEO303T 21EEO304T 21EEO305T 21EEO306T 21EEO308T 21EEO309T	Wearable Technology E-waste Management Energy Efficient Practices Surveillance Technology Sustainable Development Practices Clean and Green Energy Smart Cities and Communities Electrical Trading Unmanned Aerial Vehicle To	3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0	0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3
21LEM201T ¹ 21LEM202T ¹ 21LEM301T ¹ 21LEM302T ¹ 21GNM101L ¹ 21GNM103L ¹ 21GNM103L ¹ 21GNM104L ¹	Universal Human Values-II Understanding Harmony and Ethica Human Conduct Indian Art Form Indian Traditional Knowledge Physical and Mental Health using Yoga National Service Scheme National Cadet Corps National Sports Organization	2 1 1 1 0	1 0 0	0 0 0 0 2	0 3 0 0	21EEO302T 21EEO303T 21EEO304T 21EEO305T 21EEO306T 21EEO308T 21EEO309T	Wearable Technology E-waste Management Energy Efficient Practices Surveillance Technology Sustainable Development Practices Clean and Green Energy Smart Cities and Communities Electrical Trading Unmanned Aerial Vehicle	3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0	0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3
21LEM201T ¹ 21LEM202T ¹ 21LEM301T ¹ 21LEM302T ¹ 21GNM101L ¹ 21GNM102L ¹ 21GNM103L ¹ 21GNM104L ¹ Project Work	Universal Human Values-II Understanding Harmony and Ethica Human Conduct Indian Art Form Indian Traditional Knowledge Physical and Mental Health using Yoga National Service Scheme National Cadet Corps National Sports Organization To K, Seminar, Internship in Industry / High Institutions (P)	2 1 1 1 0	1 0 0	0 0 0 0	0 3 0 0	21EEO302T 21EEO303T 21EEO304T 21EEO305T 21EEO306T 21EEO307T 21EEO309T 21EEO310T	Wearable Technology E-waste Management Energy Efficient Practices Surveillance Technology Sustainable Development Practices Clean and Green Energy Smart Cities and Communities Electrical Trading Unmanned Aerial Vehicle Professional Elective Courses (E) (Any 7 courses)	3 3 3 3 3 3 3 3 3 3 3 3 3 3 4 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3
21LEM201T ¹ 21LEM202T ¹ 21LEM301T ¹ 21LEM302T ¹ 21GNM101L ¹ 21GNM102L ¹ 21GNM103L ¹ 21GNM104L ¹ Project Work	Universal Human Values-II Understanding Harmony and Ethica Human Conduct Indian Art Form Indian Traditional Knowledge Physical and Mental Health using Yoga National Service Scheme National Cadet Corps National Sports Organization To K, Seminar, Internship in Industry / High Institutions (P) Course	2 1 1 1 0	1 0 0	0 0 0 0 2	0 3 0 0	21EEO302T 21EEO303T 21EEO304T 21EEO305T 21EEO306T 21EEO309T 21EEO309T 21EEO310T	Wearable Technology E-waste Management Energy Efficient Practices Surveillance Technology Sustainable Development Practices Clean and Green Energy Smart Cities and Communities Electrical Trading Unmanned Aerial Vehicle Technology T	3 3 3 3 3 3 3 3 3 3 3 3 3 3 4 1 1 1 1 1	0 0 0 0 0 0 0 0 0 Cree	0 0 0 0 0 0 0 0 0 0 0 dits	3 3 3 3 3 3 3 09
21LEM201T ¹ 21LEM202T ¹ 21LEM301T ¹ 21LEM302T ¹ 21GNM101L ¹ 21GNM102L ¹ 21GNM103L ¹ 21GNM104L ¹ Project Work	Universal Human Values-II Understanding Harmony and Ethica Human Conduct Indian Art Form Indian Traditional Knowledge Physical and Mental Health using Yoga National Service Scheme National Cadet Corps National Sports Organization To K, Seminar, Internship in Industry / High Institutions (P)	2 1 1 1 0	1 0 0 0 Crecurs, eeck	0 0 0 0 2	0 3 0 0	21EEO302T 21EEO303T 21EEO304T 21EEO305T 21EEO306T 21EEO309T 21EEO310T 21EEO310T	Wearable Technology E-waste Management Energy Efficient Practices Surveillance Technology Sustainable Development Practices Clean and Green Energy Smart Cities and Communities Electrical Trading Unmanned Aerial Vehicle Professional Elective Courses (E) (Any 7 courses) Course Title	3 3 3 3 3 3 3 3 3 3 3 3 4 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 Crec	0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 09
21LEM201T ¹ 21LEM202T ¹ 21LEM301T ¹ 21LEM302T ¹ 21GNM101L ¹ 21GNM102L ¹ 21GNM103L ¹ 21GNM104L ¹ Project Work	Universal Human Values-II Understanding Harmony and Ethica Human Conduct Indian Art Form Indian Traditional Knowledge Physical and Mental Health using Yoga National Service Scheme National Cadet Corps National Sports Organization To K, Seminar, Internship in Industry / High Institutions (P) Course Title	1 1 1 1 0 otal We	1 0 0 0 Crecurs, eeck	0 0 0 0 2	0 0 0 0	21EEO302T 21EEO303T 21EEO304T 21EEO305T 21EEO306T 21EEO309T 21EEO310T 21EEO310T Course Code	Wearable Technology E-waste Management Energy Efficient Practices Surveillance Technology Sustainable Development Practices Clean and Green Energy Smart Cities and Communities Electrical Trading Unmanned Aerial Vehicle Professional Elective Courses (E) (Any 7 courses) Course Title stream: Intelligent Energy and Power Sy	3 3 3 3 3 3 3 3 3 3 3 3 4 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 Crec	0 0 0 0 0 0 0 0 0 0 0 dits	3 3 3 3 3 3 3 09
21LEM201T ¹ 21LEM202T ¹ 21LEM301T ¹ 21LEM302T ¹ 21LEM302T ¹ 21GNM101L ¹ 21GNM103L ¹ 21GNM104L ¹ Project Worl Course Code 21GNP301L ¹	Universal Human Values-II Understanding Harmony and Ethica Human Conduct Indian Art Form Indian Traditional Knowledge Physical and Mental Health using Yoga National Service Scheme National Cadet Corps National Sports Organization To K, Seminar, Internship in Industry / High Institutions (P) Course Title Community Connect	2 1 1 1 1 0 otal Hor We 1 1 1 1 1 1 1 1 1 1	0 0 Crechurs, eeek	0 0 0 0 2 dits	0 0 0 0 03 al	21EEO302T 21EEO303T 21EEO304T 21EEO305T 21EEO306T 21EEO309T 21EEO310T 21EEO310T Course Code	Wearable Technology E-waste Management Energy Efficient Practices Surveillance Technology Sustainable Development Practices Clean and Green Energy Smart Cities and Communities Electrical Trading Unmanned Aerial Vehicle Professional Elective Courses (E) (Any 7 courses) Course Title	3 3 3 3 3 3 3 3 3 3 3 3 3 4 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 Crec	0 0 0 0 0 0 0 0 0 0 0 0 k k	3 3 3 3 3 3 3 09
21LEM201T ¹ 21LEM202T ¹ 21LEM301T ¹ 21LEM302T ¹ 21LEM302T ¹ 21GNM101L ¹ 21GNM103L ¹ 21GNM104L ¹ Project Worl Course Code 21GNP301L ¹ 21EEP302L ¹	Universal Human Values-II Understanding Harmony and Ethica Human Conduct Indian Art Form Indian Traditional Knowledge Physical and Mental Health using Yoga National Service Scheme National Cadet Corps National Sports Organization To K, Seminar, Internship in Industry / High Institutions (P) Course Title Community Connect Project	2	1 0 0 0 Cre	0 0 0 0 2 dits	0 0 0 0 0 03	21EEO302T 21EEO303T 21EEO304T 21EEO305T 21EEO306T 21EEO309T 21EEO310T 21EEO310T Course Code Sub- 21EEE301T	Wearable Technology E-waste Management Energy Efficient Practices Surveillance Technology Sustainable Development Practices Clean and Green Energy Smart Cities and Communities Electrical Trading Unmanned Aerial Vehicle Professional Elective Courses (E) (Any 7 courses) Course Title stream: Intelligent Energy and Power Sy	3 3 3 3 3 3 3 3 3 3 3 3 4 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 Crec	0 0 0 0 0 0 0 0 0 0 0 dits	3 3 3 3 3 3 3 09
21LEM201T 1 21LEM202T 1 21LEM301T 1 21LEM302T 1 21LEM302T 1 21GNM101L 1 21GNM103L 1 21GNM104L 1 Project Work Course Code 21GNP301L 1 21EEP302L 1 21EEP303T 1	Universal Human Values-II Understanding Harmony and Ethica Human Conduct Indian Art Form Indian Traditional Knowledge Physical and Mental Health using Yoga National Service Scheme National Cadet Corps National Sports Organization To K, Seminar, Internship in Industry / High Institutions (P) Course Title Community Connect Project MOOC	2	0 0 Crechurs deek	0 0 0 0 2 dits	0 0 0 0 03 al	21EEO302T 21EEO303T 21EEO304T 21EEO306T 21EEO307T 21EEO309T 21EEO310T Course Code Sub-	Wearable Technology E-waste Management Energy Efficient Practices Surveillance Technology Sustainable Development Practices Clean and Green Energy Smart Cities and Communities Electrical Trading Unmanned Aerial Vehicle Professional Elective Courses (E) (Any 7 courses) Course Title stream: Intelligent Energy and Power Sy Modelling and Control of Sustainable	3 3 3 3 3 3 3 3 3 3 3 3 3 4 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 Crec	0 0 0 0 0 0 0 0 0 0 0 0 k k	3 3 3 3 3 3 3 09
21LEM201T 1 21LEM202T 1 21LEM301T 1 21LEM302T 1 21LEM302T 1 21GNM101L 1 21GNM103L 1 21GNM104L 1 Project Work Course Code 21GNP301L 1 21EEP302L 1 21EEP303T 1 21EEP401L	Universal Human Values-II Understanding Harmony and Ethica Human Conduct Indian Art Form Indian Traditional Knowledge Physical and Mental Health using Yoga National Service Scheme National Cadet Corps National Sports Organization To K, Seminar, Internship in Industry / High Institutions (P) Course Title Community Connect Project MOOC Major Project	2	O Creciurs (eeek	0 0 0 0 2 dits	0 0 0 0 03 al	21EEO302T 21EEO303T 21EEO304T 21EEO305T 21EEO306T 21EEO309T 21EEO310T 21EEO310T Course Code Sub- 21EEE301T	Wearable Technology E-waste Management Energy Efficient Practices Surveillance Technology Sustainable Development Practices Clean and Green Energy Smart Cities and Communities Electrical Trading Unmanned Aerial Vehicle Professional Elective Courses (E) (Any 7 courses) Course Title stream: Intelligent Energy and Power Sy Modelling and Control of Sustainable Energy Systems	3 3 3 3 3 3 3 3 3 3 3 3 4 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 09
21LEM201T 1 21LEM202T 1 21LEM301T 1 21LEM302T 1 21LEM302T 1 21GNM101L 1 21GNM103L 1 21GNM104L 1 Project Work Course Code 21GNP301L 1 21EEP302L 1 21EEP303T 1 21EEP401L 21EEP401L 21EEP402L	Universal Human Values-II Understanding Harmony and Ethica Human Conduct Indian Art Form Indian Traditional Knowledge Physical and Mental Health using Yoga National Service Scheme National Cadet Corps National Sports Organization To K, Seminar, Internship in Industry / High Institutions (P) Course Title Community Connect Project MOOC Major Project Major Project	2	O Creck	0 0 0 0 2 dits	0 0 0 0 0 0 3 al	21EE0302T 21EE0304T 21EE0305T 21EE0306T 21EE0309T 21EE0309T 21EE0310T Course Code Sub- 21EEE301T 21EEE302T 21EEE303J	Wearable Technology E-waste Management Energy Efficient Practices Surveillance Technology Sustainable Development Practices Clean and Green Energy Smart Cities and Communities Electrical Trading Unmanned Aerial Vehicle Professional Elective Courses (E) (Any 7 courses) Course Title stream: Intelligent Energy and Power Sy Modelling and Control of Sustainable Energy Systems Power Quality Real Time Edge Computing in Energy Systems	3 3 3 3 3 3 3 3 3 3 3 3 4 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 09 C
21LEM201T 1 21LEM202T 1 21LEM301T 1 21LEM302T 1 21LEM302T 1 21GNM101L 1 21GNM103L 1 21GNM104L 1 Project Worl Course Code 21GNP301L 1 21EEP302L 1 21EEP303T 1 21EEP401L	Universal Human Values-II Understanding Harmony and Ethica Human Conduct Indian Art Form Indian Traditional Knowledge Physical and Mental Health using Yoga National Service Scheme National Cadet Corps National Sports Organization To K, Seminar, Internship in Industry / High Institutions (P) Course Title Community Connect Project MOOC Major Project Internship#	2	1 0 0 0 Creck F 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2 dits	0 0 0 0 03 al	21EE0302T 21EE0304T 21EE0305T 21EE0306T 21EE0309T 21EE0309T 21EE0310T Course Code Sub- 21EEE301T 21EEE302T 21EEE303J	Wearable Technology E-waste Management Energy Efficient Practices Surveillance Technology Sustainable Development Practices Clean and Green Energy Smart Cities and Communities Electrical Trading Unmanned Aerial Vehicle Professional Elective Courses (E) (Any 7 courses) Course Title stream: Intelligent Energy and Power Sy Modelling and Control of Sustainable Energy Systems Power Quality Real Time Edge Computing in Energy	3 3 3 3 3 3 3 3 3 3 3 3 4 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 09

					21FFF402T	Al in Smart Buildings and Electric Vehicles	3	0	0	3
	21EEE403T	High Voltage Engineering	3	0	0	3				
				21FFF404T	Data Analytics and Cybersecurity for				Ť	
					ZIEEE IOII	Energy Systems	3	0	0	3
Professional Elective Courses (E)			0, ,				_			
(Any 7 courses)		Professional Elective Courses (E)								
Course Course		ours			Course	Course	Н	ours	<i>s</i> /	
Code Title	\	Nee			Code	Title	٧	Vee	k	
	L	T	Р	С	Code	1.00	L	Τ	Р	С
Sub-stream: Power Electronics and Driv		_	_	•	21EEE419P 1	Fundamentals of Virtual Reality and	1	0	4	3
21EEE304T HVDC Systems	3	0	0	3	ZTEEE TTO	Augmented Reality		Ů	'	
21EEE305T Design of Electrical Apparatus	3	0	0	3	21EEE420J	Big Data Tools for Visualization and	2	0	2	3
21EEE306T Special Electrical Machines	3	0	0	3		Analytics				
21EEE405L 1 Software tools for Power Electronics	1	0	4	3			2	0	2	3
21EEE406T Power Electronics for Renewable Energy	3	0	0	3		Deep Learning Algorithms	3	0	0	3
Systems	-	•	•			Edge Computing Technologies	3	0	0	3
21EEE407T Advanced Power Semiconductor Devices		0	0	3	21EEE424T	Fundamentals of Block Chain Technology	3	0	0	3
21EEE408T MEMS Technology	3	0	0	3		Sub-stream: Control and Automation				
Sub-stream: Electric Mobility					21EEE322J	Programmable Logic Controllers	2	0	2	3
21EEE307T Electric Vehicle Technology	3	0	0	3		Advanced Control System	3	0	0	3
21EEE308T Automotive Electronics	3	0	0	3		Smart Sensor Systems	3	0	0	3
21EEE309T Energy Storage systems	3	0	0	3	21EEE325T	Fundamentals of Robotics	3	0	0	3
21EEE409T Automotive Systems Engineering	3	0	0	3	21EEE326T	Computer Vision System	3	0	0	3
21EEE410T Autonomous and Connected Vehicles	3	0	0	3		Industrial IoT and Automation	1	0	4	3
21EEE411T Intelligent Transport Systems	3	0	0	3	21EEE426T	Nonlinear Control Systems	3	0	0	3
21EEE412T Techno-economic Analysis of Electric	3	0	0	3		Digital Control Systems	3	0	0	3
venicies	3	U	U	3		Industrial Robotics	3	0	0	3
21EEE413J Electric Vehicles Power Train Modelling	2	0	2	3		Real Time Embedded System	3	0	0	3
and Simulation		U	_	J		Sub-stream: Sustainable Development				
Sub-stream: Electronic System Design					04555077	Sustainable Development Goals and	3	۸	^	2
21EEE310T Advanced Digital System Design	3	0	0	3	21EEE327T	Policies	3	0	0	3
21EEE311T FPGA Architecture and Programming	3	0	0	3	21EEE328T	Electricity Policy and Safety Measures	3	0	0	3
21EEE312T Advanced Electronic Devices	3	0	0	3		Work and Employability for a Sustainable		^	^	
21EEE313T Photonics	3	0	0	3	21EEE329T	Future	3	0	0	3
21EEE314T Optics for Engineers	3	0	0	3	2455522	Natural Resources for Sustainable	2	٥	0	2
21EEE414J Industrial Electronics	2	0	2	3	21EEE330T	Development	3	0	0	3
21EEE415T VLSI Circuits and Design	3	0	0	3	24555247	Environmental Security and Sustaining	3	^	0	0
21EEE416T Medical Electronics	3	0	0	3	21EEE331T	Peace	3	0	0	3
21EEE417T Principles of Digital Communications	3	0	0	3	21EEE332T	Sustainable Challenges in Cities	3	0	0	3
21EEE418T Device Modelling	3	0	0	3	04555005	Climate Change and Socio-Economic				
Sub-stream: Intelligent Learning and Computing	Tech	nniq	ues		21EEE333T	Systems	3	0	0	3
21EEE315T Programming for Engineers with C++	3	0	0	3	21EEE430T	Governance in Infrastructure	3	0	0	3
21EEE316T Computer Organization and Architecture	3	0	0	3		Responsible Consumption and Production	3	0	0	3
21EEE317T Computer Networks	3	0	0	3		Sustainable Industrial Revolution	3	0	0	3
21EEE318J Introduction to Python Programming	2	0	2	3		Impact Measurement and Management				
F d					21EEE433T	for the Sustainable Development Goals	3	0	0	3
Intelligence	3	0	0	3	21EEE434T	Energy Conservation and Efficiency	3	0	0	3
21EEE320T Nature Inspired Computing Techniques	3	0	0	3	21EEE435T	Energy Auditing	3	0	0	3
21EEE321T Fundamentals of Internet of Things	3	0	0	3			tal	Cre	dits	
			•							

36. (f) Programme Articulation: B.Tech. in Electrical and Electronics Engineering

					F	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	Conduct investigations of complex problems	<mark>Mo</mark> dern Tool Usage	The engineer and society	Environment & Sustainability	Ethics	ndividual & Team Work	Communication	Project Mgt. & Finance	ife Long Learning	PSO-1	PSO-2	PSO-3
21EES101T	Electrical and Electronics Engineering	3	2		_	-	-	-	-	-	-	-	-	-	-	-
	Electric Circuits	3	3	-	-	-		٠.	-	2	-	-	-	1.6	-	-
	Analog Electronics	3	-	3	-	2	T	-	47.6	2	2	-	-	3	2	-
	Electromagnetic Theory	3	3	-	-	-	-	-	· -		2	<u>.</u> -	-	1	-	-
21EEC203J	Electrical Machines - I	3	2	-		-		-	-		٠.,		-	1.5	-	-
	Digital System Design	3	1	3	1-1	2	4-	7	-	-	2	4-	-	3	-	-
21EEC205J	Electrical Machines - II	3	2.75	-	-		u- ,		4	-			"	1.5	-	-
21EEC206J	Control Systems	3	-	2.5	2.5	2.75	-	4					1 -	2	2	-
21EEC207J	Sensors and Instruments	2.8	-	-	-		-	-	-	/-]	-	1		1	1	-
21EEC301J	Power Electronics	3	2.67	2.33	-	2	-	-		2	9	-	L - 1	2.33	-	-
21EEC302T	Digital Signal Processing	2.5	2.5	7.7	h	-	-	-	7	-	~	h		1	-	-
	Power System - I	2.6	3		25		-	-	-	- 1	۲.,	A	-	2.5		-
	Power System - II	3	3		46.	- 3	-	2	2	-		1	-	3	- 1	2
21EEC305P	Microcontroller	- 3	- 3	- 3	3	3	3	3	3	3	3	3	2	3	3	1
21 <mark>EEE</mark> 301T	Modelling and Control of Sustainable Energy Systems	3				11		2	,	,	1	4				3
2 <mark>1EEE302</mark> T	Power Quality	3	-	-		7	4	·	1	1	-	7		-		2
21EEE303J	Real Time Edge Computing in Energy Systems	2.8	37			2	ř.	15	Į.	25	-	. "	2	-	2	-
21EEE304T	HVDC Systems	3	JE!	2	740	/	,-1	-		1.		-	-	-	2	- 1
	Design of Electrical Apparatus	3	3	2	-	2	40	né s	47	1		-	-	2	_	_
	Special Electrical Machines	3	2	15	-	45.	1.77	10.70	4		-	-	-	2	-	
	Electric Vehicle Technology	3	-	-	3	2.6	-		141	- 1	-	-	-	1.67	2	2
	Automotive Electronics	2.8	3	24	Ŀ	1.2	-			- 1	-	-	-	1	-	1
21EEE309T	Energy Storage systems	3	2	Y	- 1	4	160	2		-	-	-			-	2.2
21EEE310T	Advanced Digital System Design	3	-	2	-	-	Ψ,	-		•	-		-	2	- 1	-
2 <mark>1EEE31</mark> 1T	FPGA Architecture and Programming	3	-	2	-5	-	ı	•	-		-	-	-	2	- (-
	Advanced Electronic Devices	3	1	-	-	-	1	-	-	-	-	1	-	2	- 1	-
21 <u>EEE313T</u>		3	-	10	-	-	-	-	-	-	/-	-	-	2		-
	Optics for Engineers	3	-	2	-	-	-	-	-	-	-	d.	Y -	- 1	2	! -
	Programming for Engineers with C++	3	1.8	20	-	-	-	-	-	-	1	/ - <u>.</u>	-	-	1	-
	Computer Organization and Architecture	3	1.6	2-1	75		-	-	-		-/	-	-	- 6	1	-
	Computer Networks	3	-	-		_	-	-	-	-	10	-	-/	1	-	-
	Introduction to Python Programming	2	2_	-	7- 4	4.	-	-	-	-	-	15	<i>f</i> -	-	2	-
	Fundamentals of Computational Intelligence	- 3	2	Ŀ.	1.74	1	-	-	4	1-1	-	- 4			2	-
	Nature Inspired Computing Techniques	33	_1	-	-				11- k	<u>)-/</u>	-	-	-	1	-	-
	Fundamentals of Internet of Things	2.6	-	1.67	-	-	-	-	-	3	- 4	-	-	3	-	-
	Programmable Logic Controllers	3	2	-	-	-	-	-	-	-	-	-	-	3	-	-
	Advanced Control System	3	2	2	-	-	-	-	-	-	-	- 4	-	2	2	-
	Smart Sensor Systems	3	2	-	-	-	-	-	-	_='	-	-	-	1	-	-
	Fundamentals of Robotics	2.8	- 4 75	-	-	-	-	-	-			-	-	2.4	-	-
21EEE326T 21EEE327T	Computer Vision System Sustainable Development Goals and	3	1.75		101	2	3	3	2	-	-	-	-	1	-	2
	Policies									0			2.22			
21EEE328T 21EEE329T	Electricity Policy and Safety Measures Work and Employability for a Sustainable future	2.33	-	-	-	-	2	3	3	2	-	-	2.33	-	-	2
21EEE330T	Natural Resources for Sustainable Development	3	-	-	-	-	-	3	-	-	-	-	2	-	-	2
21EEE331T	Environmental Security and Sustaining Peace	2	-	-	-	-	1	3	2	3	3	-	3	-	-	2
21EEE332T	Sustainable Challenges in Cities	2.8	-	-	-	-	2	2	-	-	-	-	-	-	-	2
21EEE333T	Climate Change and Socio-Economic Systems	2.6	-	-	-	-	2.8	2.6	2.5	-	-	-	1.5	-	-	1.6
21EEE401T	Smart Grid Operation and Planning	3	-	-	-	-	-	1.5	2	-	-	-	1.5	-	-	2.4
	Al in Smart Buildings and Electric Vehicles	3	2	-	-	2	-	-		-	-	-	-	3	-	-

Course Code						F	rogra	m Ou	tcome	s (PO))					PSO	
Course Code Course Name			1	2	3				7			10	11	12	1		3
21EEE403T High Voltage Engineering 3 3 -		Course Name	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	∞ర	Life Long Learning	PSO-1	PSO-2	PSO-3
ZIEEE405L Soltware tools for Power Electronics 3 - 3 3 - 3			3	3	-	-		-	-		-	-	-	-	-	-	2
Power Electronics for Renewable Energy 2 2 2 2 2 2 2 2 2	215554041	Systems	2.8	++	6-6		2		i	2	1	-	-	2	ı	2	-
ZIEEE407T Advanced Power Semiconductor Devices 3 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2 1 2 2 2 2 2 2 2 2	21EEE405L		3	-	3	-	3	-	٠.,	-	-	-	-	-	2	-	-
21EEE409T McMs Technology 3 - - 2.25 - - 2 2 - - 1 - - 21EEE409T Automotive Systems Engineering 3 2 - - 1 - - - - - - -		Systems	2	2	2	-	2	-	-		+,	-	-	-	2	-	-
21EEE400T Automotive Systems Engineering 3 2					-			-	-	-			-	-	2	-	-
21EEE4107 Autonomous and Connected Vehicles 2.8 - 3 3 - 2 2 2 1 1 - - 2 2 2 2 2 1 1 - - - 2 2 2 2 2					15	-	2.25	9-	- 2	-	2	2	-	7-	-	1	-
Intelligent Transport Systems	21EEE409T			2	-		1	J.	4	4	-	1	-	- 1	1		-
Telephone-conomic Analysis of Electric	21EEE410T		2.8	-	-			-	4		-	-	-	4-			
Vehicles	21EEE411T		3	-	2	2	2	1	1	Ρ,	(-)	-		- 1	2	2	1
21EEE4131 Industrial Electronics 2.8 3 3 2 2	21EEE41 <mark>2T</mark>		3	٠. ن	. i.	h.,	1	1	2	1	7		-			2	-
21EEE4157 VLSI Circuits and Design 3 1 2	21EE <mark>E413</mark> J		3	4		3	2.6	-	,		K	7	Ď.	-		2	
21EEE4171 Medical Electronics 3	21EEE414J	Industrial Electronics	2.8	25	3	3	3	1	1	ı	-	-	£	-	3	÷	-
21EEE417T Principles of Digital Communications 3	21EEE415T	VLSI Circuits and Design	3	1	1	- 7	Ε.	-	1 -	-	-			· -	2	- 6	-
21EEE418T Device Modelling 3	21EEE416T	Medical Electronics	3 -	7-	-	"		1	-	ı	-	-	-	-	-	2	-
21EEE419P Fundamentals of Virtual Reality and Augmented Reality 3 2.67 3 3 2.67 3 3 3 3 3 3 3 3 3	2 <mark>1EE</mark> E <mark>417</mark> T	Principles of Digital Communications	3	-	-	-	4	ŀ	4	-	٠,	-	-		1		-
21EEE420J Sign Data Tools for Visualization and			3	1	4	100	1	-	4	ŀ		-	-		1	-	-
21EEE4217 Statistical Machine Learning Techniques 3 2 7 7 7 7 7 7 7 7 7	216664199	Augmented Reality	3	2.67	3	3	2.67	3	3	3	3	3	3	2	3	3	1
21EEE423T Deep Learning Algorithms 3 1.33 - - - - - - - - -			3	2	i,		2	130	疹	Ž	1	ð.	-	-	-	1.5	-
21EEE423T Edge Computing Technologies 3			3 -	-	ď,	1.67	2.67	4	-	¥	- 1	-	-	-	-		8-
21EEE424T Fundamentals of Block Chain Technology 2 - 2 - 1 - - 2 - - - - - 2 - -		Deep Learning Algorithms	3	1.33	4		1	-	4			-	-	_	-	2	-
21EEE425P Industrial IoT and Automation 3	21EEE423T	Edge Computing Technologies	3	-	Š	-		1	-	7	-	-	-	-	-	2	-
21EEE426T Nonlinear Control Systems 2.8 2.8 2 - 1 -	21EEE424T	Fundamentals of Block Chain Technology	2	-	2	-	1	÷.		2	-	-	-	-	-	2	-
21EEE427T Digital Control Systems 3 3 -				3	3	3	3	3	3	3	3	3	3	2	3	3	1
21EEE428T Industrial Robotics 2.8 2 - <t< td=""><td></td><td></td><td></td><td>2.8</td><td>2</td><td>- 1</td><td>1</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>- 7</td><td></td><td></td><td>2</td><td>-</td></t<>				2.8	2	- 1	1	-	-	-	-	-	- 7			2	-
21EEE429T Real Time Embedded System 3 - - - 2 -					10	-	-	-	-	-	-	-		-		-	-
21EEE430T Governance in Infrastructure 2 - - - - - - 2 - - - 2 -				2	1-11	-		-	-	-	-	-	-	y -			7-
21EEE431T Responsible Consumption and Production 2 - - - - 3 - 1 - 3 - - 1 21EEE432T Sustainable Industrial Revolution 3 - - - - - - 2 - - 2 - - 2 - - - - 2 - - 2 - - - - 2 -	21EEE429T	Real Time Embedded System			2	-	2	-	-	-		_	7-	-	1	-	-
21EEE432T Sustainable Industrial Revolution 3 - - - - - 2 - - 2 - - 2 - - 2 - </td <td></td> <td></td> <td>2</td> <td>-</td> <td>9-1</td> <td></td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td></td> <td>-/</td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>2</td>			2	-	9-1		-	-		-		-/	-		-	-	2
21EEE433T Impact Measurement and Management for the Sustainable Development Goals 1.8 - - - - - - 2 - - 2.4 - - 2 21EEE433T Energy Conservation and Efficiency 3 3 - - - 3 - - - 3 - - - - 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>h 4.</td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>1</td>			-	-	-			-		-		h 4.	-		-	-	1
21EEE4331 the Sustainable Development Goals 1.0 - -			3	-	Ţ-	Dr. a	-	-	3	-	2	-	,7	2		<i>j</i> -	2
21EEE435T Energy Auditing 2.67 - - - 2 - 2 -	21EEE4331	the Sustainable Development Goals		-	L.	1,4	Ľ	į.	3	A	2	F	7	2.4		-	2
21GNP301L Community Connect 3 3 3 2				3	-			-	3	-			3	-	F -	2	2
21EEP302L Project 3 <td></td> <td></td> <td>2.67</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>2</td>			2.67	-	-	-	-		-				-	-	-	-	2
21EEP303T MOOC 3 2 3																	
21EEP401L Major Project 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 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
21EEP403L Internship 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	21EEP403L	Internship	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Program Average		Program Average															

36. (g) Implementation Plan: B.Tech. in Electrical and Electronics Engineering

	Semester – I					7		Semester – II				
		Н	ours	:/		1		Н	ours	s /		
Course Code	Course Title		Veel				Course Course Title				k	
		L	Τ	Р	С		Code	Title	L	Τ	Р	С
	Communicative English	2	1	0	3		21LEH102T	Chinese				
	Calculus and Linear Algebra	3	1	0	4		21LEH103T	French				
21PYB101J	Physics: Electromagnetic Theory,	3	1	2	5	I	21LEH104T	German				
	Quantum Mechanics, Waves and Optics	J	'		•		21LEH105T	Japanese	2	1	0	3
		0	0	4	2		21LEH106T	Korean				
	Electrical and Electronics Engineering	3	1	0	4		21LEH107T	Spanish				
	Environmental Science	1	0	0	0		21LEH108T	Russian				
	Professional Skills and Practices	0	0	2	0		21GNH101J	Philosophy of Engineering	1	0	2	2
21LEM101T ¹	Constitution of India	1	0	0	0		21MAB102T	Advanced Calculus and Complex	3	1	0	4
	To	otal (Cre	dits	18			Analysis				
	Semester – III					1	21CYB101J	Chemistry	3	1	2	5
		Н	ours	s /		1	21EEC101J	Electric Circuits	2	0	2	3
Course	Course		Vee			I		Programming for Problem Solving	3	0	2	4
Code	Title	L	Τ	Р	С		21BTB103T	Biology	2	0	0	2
0414450007	Transforms and Computational	^	,	^	,		21MES101L 1	Basic Civil and Mechanical Workshop	0	0	4	2
21MAB209T	Techniques	3	1	0	4		21PDM102L 1	General Aptitude	0	0	2	0
21PDH209T 1	Social Engineering	2	0	0	2	1		Physical and Mental Health using Yoga				
21ASS101T	Applied Engineering Mechanics	3	0	0	3	۱		National Service Scheme	0	0	2	0
21EEC201J 2	Analog Electronics	3	0	2	4			National Cadet Corps			_	Ĭ
	Electromagnetic Theory	2	1	0	3	ı	21GNM104L ¹	National Sports Organization				
21EEC203J	Electrical Machines - I	2	0	2	3	Ī		Total Credits				25
21LEM201T 1	Professional Ethics	1	0	0	0	ı		Semester – IV				
21PDM201L 1	Verbal Reasoning	0	0	2	0	ı	Course	Course	Н	ours	s /	
	Universal Human Values-II:					ı	Code	Title	١	Vee	k	
21LEM202T 1	Understanding Harmony and Ethical	2	1	0	3	ı	Code	riue	L	Τ	Р	С
	Human Conduct							Probability and Statistics	3	1	0	4
	Te	otal	Cre	dits	22	2	21EEC204J [Digital System Design	3	0	2	4
	Semester – V					٦		Electrical Machines - II	2	0	2	3
		Н	ours	s /		1		Artificial Intelligence	2	1	0	3
Course	Course	٧	Vee	k				Control Systems	2	0	2	3
Code	Title	L	Т	Р	С	I		Sensors and Instruments	2	0	2	3
21MAB302T	Discrete Mathematics	3	1	0	4			Design Thinking and Methodology	1	2	0	3
21EEC301J	Power Electronics	3	0	2	4		21PDM202L 1 (Critical and Creative Thinking Skills	0	0	2	0
21EEC302T	Digital Signal Processing	2	1	0	3			To	otal	Cre	dits	23
	Power System - I	2	1	0	3	1		Semester – VI				
Е	Professional Elective – I				3	٦			Н	ours	3/	
0	Open Elective – I				3	ı	Course	Course		Vee		
21GNP301L 1	Community Connect	0	0	2	1	1	Code	Title	Τ,	T	P	С
	Analytical and Logical Thinking Skills	0	0	2	0	١	21CSS303T /	Data Science	2		0	
21LEM301T 1	Indian Art Form	1	0	0	0	١		Power System - II	3	0	2	4
	To	otal					21EEC305P 1 N		1	0	4	3
	Somester VIII					i		Professional Elective – II				3
	Semester – VII	Ш	ours	. /		ł		Professional Elective – III				3
Course	Course		Vee					Open Elective – II				3
Code	Title	_ v	T	Р	С		21EEP302L 1 F		0	0	6	
21GNH401T	Behavioral Psychology	2	1	0	3	ш		MOOC	3	0	0	3
	Professional Elective – IV		1	U	3			Employability Skills and Practices	0	0	2	0
_	Professional Elective – V				3			ndian Traditional Knowledge	1	0	0	0
	Professional Elective – V				3	1			otal			-
	Professional Elective – VI				3	╂						
	Open Elective – III	3	0	0	3			Semester - VIII			, 1	
		otal					Course	Course		urs		
		JIAI	OI C	uitS	10	4	Code	Title		eek		_
									_		P	<u>C</u>
							21EEP401L	- 7 7			30	15
							21EEP402L	.,,		_	20	10
1							21EEP403L		-	_	10	5
								10	tal C	red	IITS	15
01 1 1 1	e to reaister either 21EEP401L or 21EEP40	21 0	nd '	24 [40	121 hath in sight	h as mas atom				



SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

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

Kattankulathur, Chengalpattu District 603203, Tamil Nadu, India