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

34. B.Tech. in Electronics and Computer Engineering

34. (a) Mission of the Department

()	
IIVIISSION SIIIII – I	Build an educational process that is well suited to local needs as well as satisfies the national and international accreditation requirements.
	Attract the qualified professionals and retain them by building an environment that fosters work freedom and empowerment.
Mission Stmt – 3	With the right talent pool, create knowledge and disseminate, get involved in collaborative research with reputed universities and produce competent graduands.

34. (b) Program Educational Objectives (PEO)

	8
PEO – 1	Apply the acquired knowledge and skills in solving real-world engineering problems, considering national/global and societal issues such as health, environment, and safety.
PEO – 2	Devise novel computer-based embedded solutions/ products which are economically feasible and socially relevant.
PEO – 3	Develop an attitude toward pursuing knowledge and advanced education for sustained career advancement to adapt to emerging fields.
PEO – 4	Demonstrate leadership qualities and effective communication skills to work in a team of enterprising people in a multidisciplinary and multicultural environment with strong adherence to professional ethics.

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

	_	Mission Stm	t1	Mission Stmt 2	Mission Stmt 3
PEO - 1		1	A TOTAL	2	- 3
PEO - 2	7	3	100	3	3
PEO - 3		2	F 100	1 1 1	3
PEO - 4		3	11,0217	3. 1	3

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

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

			17/10	75.	Pro	gram Ou	tcomes (PO)			السراد		Prog	ram Spe	eci <mark>fic</mark>
	1	2	3	4	5	- 6	7	8	9	10	11	12	Outo	comes (P	(SO)
The same	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	Z-0S4	8-0Sd
PEO - 1	3	3	7-1-	4	AR	3	3	2	-	-	-	1	3		
PEO - 2	4.	- /	3	3	3	3	4-4	W-11	2	1	3	-	7	3	-
PEO - 3		-		3	3	-	2	2	-	2		- 3		2	3
PEO - 4	-		-	-	ı	-	-	3	3	3	3	/	*- /	-	3

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

PSO – Program Specific Outcomes (PSO)

	Problem-Solving Skills: Apply the concepts of electronics, signal processing, embedded systems and programming using latest
100 1	hardware and software tools to design, develop and implement application-oriented computing systems.
PSO - 2	Professional Skills: Demonstrate analytical and managerial skills to arrive at cost effective and optimum solutions either
130-2	independently or as a team.
DCO 2	Successful Career and Entrepreneurship: Carry out their professional responsibilities in an ethical manner giving due consideration
PSO - 3	to societal and environmental well-being.

34. (e) Program Structure: B.Tech. in Electronics and Computer Engineering

	Humanities & Social Sciences						Basic Science Courses (B)				
	including Management Courses (H)					Course	Course	H	lour	s /	
Course	Course		ours			Code	Title	١	Wee		
Code	Title	V	Vee			Code		L	Τ	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		'		-
21LEH102T							Chemistry	3	1	2	5
21LEH103T						21MAB101T	Calculus and Linear Algebra	3	1	0	4
	German					21MAB102T	Advanced Calculus and Complex	3	1	0	4
	Japanese	2	1	0	3	ZTWWIBTOZT	Analysis	ļ.		Ů	,
21LEH106T						21MAB201T	Transforms and Boundary Value	3	1	0	4
	Spanish						Problems				
21LEH108T							Probability and Stochastic Processes	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			Total	Cre	dits	32
	To	otal	Cre	dits	13	1 7 7 7 7					
	Engineering Science Courses (S)						Professional Core Courses (C)				
Course	Course	Н	ours	<i>s</i> /		Course	Course	H	lour	s/	
Code	Title	٧	Veel	k		Course	Title	1	Wee	k	
		L	T	Р	С	Code	Title	L	Т	Р	С
21MES101L 1	Basic Civil and Mechanical Workshop	0	0	4	2	21ECC112J		3	0	2	4
	Engineering Graphics and Design	0	0	4	2	21ECC212T		3	0	0	3
21EES101T	Electrical and Electronics Engineering	3	1	0	4	21ECC213J	Analog Devices and Circuits	3	0	2	4
21CSS101J	Programming for Problem Solving	3	0	2	4	21ECC203T	Digital Logic Design	3	0	0	3
	Computer Organization and Architecture	3	1	0	4	21ECC204T	² Signal Processing	3	0	0	3
	Design Thinking and Methodology	1	2	0	3	21ECC215J	Object Oriented Design and	3	0	2	4
21CSS303T	Data Science	2	0	0	2	21ECC2133	Programming	3	U		4
	To	otal	Cre	dits	21	21ECC233L		0	0	4	2
	Non Credit Courses (M)			-	-	21ECC312T		3	0	0	3
	Non Credit Courses (W)	ш	lours	- /		21ECC313P		3	1	0	4
Course	Course		Nee			21ECC314J	Embedded Hardware and Operating	2	0	2	3
Code	Title	T .	T	P	С		Systems		U		
21DDM1011 1	Professional Skills and Practices	0	0	2	0	21ECC315T		3	0	0	3
	General Aptitude	0	0	2	0	21ECC317T		3		0	3
	Verbal Reasoning	0	0	2	0		Programming with Python	2	0	2	3
	Critical and Creative Thinking Skills	0	0	2	0		FPGA based Embedded Systems	3	0	0	3
	Analytical and Logical Thinking Skills	0	0	2	0	21CSC206T		2	1	0	3
	Employability Skills and Practices	0	0	2	0			Total	Cre	dits	48
	Environmental Science	1	0	0	0		Open Elective Courses (O)				
21LEM101T ¹		1	0	0	0		(Any 3 courses)				
	Universal Human Values – Introduction	1	0	0	0	0-	, ,	H	lour	s /	
	Professional Ethics	1	0	0		Course	Course	١	Wee	k	
LILLIVIZOTI	Universal Human Values-II:	1	-	-	U	Code	Title	L	Т	_	С
21LEM202T 1		2	1	0	3	21ECO101T	Short Range Wireless Communication	3	0		_
	Human Conduct	_	,				Electronic Circuits and Systems	2	0	2	3
21LEM301T 1		1	0	0	0	245004025	Modern Wireless Communication	2	0		2
	Indian Traditional Knowledge	1	0	0	0	21ECO103T	Systems	3	0	0	3
	Physical and Mental Health using Yoga	Ė				21ECO104J	PCB Design and Manufacturing	2	0	2	3
	National Service Scheme	_	_	_	_	21ECO105T	Fiber Optics and Optoelectronics	3	0		
	National Cadet Corps	0	0	2	0		Embedded System Design using Arduing		0	2	3
	National Sports Organization					21ECO107J	Embedded System Design using	2	0	2	3
		otal	Cre	dits	03		Raspberry Pi		-		
Desi (18)						21ECO108J	3D Printing Hardware and Software	2	0	2	3
Project Wo	rk, Seminar, Internship in Industry / High	ier I	ech	inic	aı	21ECO109T	5G Technology – An Overview	3	0	0	3
	Institutions (P)							Total	Cre	dits	09

Course Code	Course Title		lour: Wee							
Code	Title	L	Т	Р	С					
21GNP301L 1	Community Connect	0	0	2	1					
21ECP302L 1	Project	0	0	6	3					
21ECP303T 1	MOOC	3	0	0	J					
21ECP401L	Major Project	0	0	30	15					
21ECP402L	Major Project	0	0	20	10					
21ECP403L	Internship#	0	0	10	5					
Total Credits 19										

	Professional Elective Courses (E) (Any 6 Courses)						Professional Elective Courses (E)				
Course Code	Course Title		ours Vee		С	Course Code	Course Title		lours Vee		С
	Sub-Stream: Electronics Engineering	_					Sub-Stream: Computer Engineering			•	Ū
21ECE210P 1	IoT System Design	2	1	0	3	21ECE231T	Principles of Cloud Computing	3	0	0	3
21ECE211T	Electromagnetics and Antenna Theory	3	0	0	3		Data Analysis and Visualization	3	0	0	3
21FCF212T	Control Systems: Theory and	3	0	٥	2	21ECE305J	Machine Learning Algorithms	2	0	2	3
	Applications	٠	0	U	3	21ECE330T	Full Stack Development	3	0	0	3
21ECE220T	Wireless and Optical Sensors	3	0	0	3	21ECE331T	Data Mining and Analytics		0	0	3
21ECE310J	Applied Digital Signal Processing	2	0	2	3	21ECE332J	Multi-Core Architecture and Programming	2	0	2	3
21ECE311T	Digital Communication Systems	3	0	0	3	21ECE333T	Hardware Software Co-Design	3	0	0	3
21ECE421T	Wireless Communication Networks	3	0	0	3	21ECE304T	Cyber Physical System Framework	3	0	0	3
21ECE410T	ASIC Design	3	0	0	3	21ECE430T	Introduction to Virtual Computing	3	0	0	3
21ECE411T	Embedded Linux	3	0	0	3	21ECE431T	Mobile Computing	3	0	0	3
21ECE412T	Algorithms for Cryptography	3	0	0	3	21ECE432T	Quantum Computing	3	0	0	3
						21ECE433T	Deep Learning	3	0	0	3
	F 1 7	ρï	4.		N.	21ECE434T	Web of Things	3	0	0	3
		Total Credits 18									



34. (f) Programme Articulation: B.Tech. in Electronics and Computer Engineering

					F	rogra	ım Ou	tcome	es (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	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
21ECC112J	Systems Programming	2	2	3	2	3	-	-	-	-	-	-	-	2	-	-
	Digital logic Design	3	2	2	-	3		Га.	-		-	-	-	3	-	-
	Signal Processing	2	2.2	3	3	-		-	42	-		-	-	-	-	2.2
21ECC212T	Data Structures and Algorithms	1	2.4	2.6	-	-	-	-		-	-		-	2.3	2	3
	Analog Devices and Circuits	3	2	3	1.0	-	-	-	-		-		2	2	2	2
	Object Oriented Design and Programming		3	2.25	2	2.7	7.	-	-	-	-	-11-		3	2.5	-
	Data Structures Laboratory		1	2		3	de la		-	-	-		"	2.3	2	3
	Hardware Interfacing and Networking	3	2	2.5	2	_	-			-	-	-	4.	1	-	-
	Embedded Microcontrollers	-	-	3	3	2	-	-		/ []	-	- 5		3	3	-
	Embedded Hardware and Operating Systems	3	ai.		2	2	-		. 1	7	>	-	1	3	\-	-
21ECC315T	Data Base Management Systems	2.4	2.2	2	147	3	-	-		- '	T - ,	4.	-	3	2	-
	Data Communication and PLC	2	2.3	2	3	- 3	-	-	-	-	4	7.7	-	2	-	2
21ECC412J	Programming with Python	10	- 3	- 3	2.5	3	12-	-	-	3	-	7	-	2	-	2.7
21ECC413T	FPGA based Embedded Systems	2.3		3	- 7	2.6		L-	-	-	١		4	2.7		-
21ECE210P	IOT System Design	3 -	744	2	2	1.7	455		-		-	-	2.5	2.7		2
2 <mark>1ECE211</mark> T	Electromagnetics and Antenna Theory	2.6	2.4	-		4.50	- 15	i		٦.	-	7		2		-
21ECE212T	Control Systems: Theory and Applications	3	2.75	2	- 1	-	-	1	-	-	-	-	7	3	-	-
	Wireless and Optical Sensors	3	1	1.5	135		-		7	77	4	-	ŀ		-	2
21ECE231T	Principles of Cloud Computing	3	2.25		2	2	12.00	-	-	٠.		-	7	3	2	-
	Data Analysis and Visualization	3	2.75		3	3	2	A_{ij}^{\prime}	-	-1	2.5	-	3	3	2.75	-
	Applied Digital Signal Processing	2.7	2.3	2.3	3	-	1.	14.5	(7)	- 1	-	-	-	-	-	2
	Digital Communication Systems	2.5	2	2.5	-			-	174	- 14	-	-	-	2.3	2	3
	Full Stack Development	_3	4	2	Ŀ		-		-	- 1	-	-	-	3	-	-
	Data Mining and Analytics	3	1.7	3		2	140	-		-	-	-	-	2.5	-	1
	Multi-core Architecture and Programming	3	2.7	2	-/	-		-	-	-	-		-	2	- 1	-
	Hardware software Co-Design	3	2	3	1.75	-	-	-	-	-	-		2	2	- 6	-
	Embedded Linux	3		3	3	3	-	-	-	-	-	£	7	3		-
	Algorithms for Cryptography	2.5	3	2	-	-	-	-	-	-	/-	-	-	2	2.3	-
	Wireless Communication Networks	3	2.8	2	2			2				4	7	2.3	2	3
	Introduction to Virtual Computing	3	2	2	-	-	1.5	-	-	-	J-5	<u> </u>	2	-	1	-
	Mobile Computing	3	3	1.5	3.0	3	2	-	-	3	-/	-	-		- 4	-
	Quantum Computing	3	2	3	1.5	2	-	-					1		-	-
	Deep Learning	3	2_	3	3	3	-	-	-		٠.	, C	3	2	-	3
	Web of Things	-3	2	L-L		2.3	_3	3	1	11-1	+-	- 1	-	3	-	-
	Machine Learning Algorithms	3	1.3	-	3	1.8			11- J	, Ji - J		-	-	1.4	-	
	Cyber Physical System Framework	3	2.2	3	_	3				3						
21ECE410T		3	2.67	2.67	2	2	-	-	-	2	-	_	-	3	-	1.5
	Community Connect	2	2	2	2	2	3	2	3	3	2	2	2	2	2	^
21ECP302L		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
21ECP303T		3	2	2	2	2	2	2	2	2	2	2	2	3	2	2
	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
21ECP403L		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Program Average	2.8	2.2	2.5	2.4	2.6	2.1	3.0	<u> </u>	2.8	2.5		2.2	2.5	2.1	2.3

34. (g) Implementation Plan: B.Tech. in Electronics and Computer Engineering

	Semester – I						Semester – II				
Course	Course		ours			Course	Course	Н	lours	s /	
Code	Title	٧	Veel			Code	Title	\	Nee		
		L	T	Р	С			L	Τ	Р	С
	Communicative English	2	1	0	3	21LEH102T	Chinese	_			
	Calculus and Linear Algebra	3	1	0	4	21LEH103T	French	4			
21PYB101J	Physics: Electromagnetic Theory,	3	1	2	5	21LEH104T	German	4			
	Quantum Mechanics, Waves and Optics					21LEH105T	Japanese	2	1	0	3
	Engineering Graphics and Design	0	0	4	2	21LEH106T	Korean	4			
	Electrical and Electronics Engineering	3	1	0	4	21LEH107T	Spanish	4			
	Environmental Science	1	0	0	0	21LEH108T	Russian	1			Ļ
	Professional Skills and Practices	0	0	2	0	21GNH101J	Philosophy of Engineering	1	0	2	2
21LEM101T ¹		1	0	0	0	21MAB102T	Advanced Calculus and Complex	3	1	0	4
<u> </u>	To	tal (Cre	dits	18		Analysis	Ĭ	i.		
	0 4 111					21CYB101J	Chemistry	3	1	2	5
 	Semester – III			,		21ECC112J		3	0	2	4
Course	Course		ours			21CSS101J	Programming for Problem Solving	3	0	2	4
Code	Title	_	Vee			21BTB103T	Biology	2	0	0	2
	T (15 1 1/1	L	T	Р	С	21MES101L 1		0	0	4	2
21MAB201T	Transforms and Boundary Value Problems	3	1	0	4	21PDM102L 1		0	0	2	0
		2	0	0	2	21GNM101L 1		4			
		2	0	0	2	21GNM102L 1		0	0	2	0
	Computer Organization and Architecture	3	7	0	4		National Cadet Corps	J ઁ	Ĭ	-	Ĭ
	Analog Devices and Circuits	3	0	2	4	21GNM104L ¹	National Sports Organization				
	Digital Logic Design	3	0	0	3		То	otal	Cre	dits	26
	Object Oriented Design and Programming	3	0	2	4		Semester – IV				
		7	0	0	0			Н	lours	: /	
21PDM201L ¹		0	0	2	0	Course	Course		Nee		
041 514000 1	Universal Human Values-II:	0		_	_	Code	Title			Р	С
21LEM202T ¹	Understanding Harmony and Ethical	2	1	0	3	21MAB203T	robability and Stochastic Processes		T 1	0	4
	Human Conduct	otal	C	1:4-	24		Data Structures and Algorithms	3	0	0	3
		olai	Cre	uits	24		Signal Processing	3	0	0	3
	Semester – V						Data Structures Laboratory	0	0	4	2
Course	Course		ours				Artificial Intelligence	2	1	0	3
Code	Title	V	Vee	_		-	Professional Elective-I				3
	1100	1 1	т —	ח	С						
			_	Р				1	2	0	3
21MAB302T	Discrete Mathematics	3	1	0	4	21DCS201P 1	Design Thinking and Methodology	1	2	0	3 0
21MAB302T 21ECC313P1	Embedded Microcontrollers	3	1	0	4	21DCS201P 1	Design Thinking and Methodology Critical and Creative Thinking Skills	0	0	2	0
21MAB302T 21ECC313P 1 21ECC315T	Embedded Microcontrollers Database Management Systems	3	1	0 0 0	4 4 3	21DCS201P 1	Design Thinking and Methodology Critical and Creative Thinking Skills T		0	2	0
21MAB302T 21ECC313P 1 21ECC315T 21ECC317T	Embedded Microcontrollers Database Management Systems Data Communication and PLC	3	1	0	4 4 3 3	21DCS201P 1	Design Thinking and Methodology Critical and Creative Thinking Skills	otal	0 Cre	2 dits	0
21MAB302T 21ECC313P 1 21ECC315T 21ECC317T E	Embedded Microcontrollers Database Management Systems Data Communication and PLC Professional Elective – II	3	1	0 0 0	4 4 3 3 3	21DCS201P ¹ 21PDM202L ¹	Design Thinking and Methodology Critical and Creative Thinking Skills T Semester – VI	0 otal	0 Cred	2 dits	0
21MAB302T 21ECC313P1 21ECC315T 21ECC317T E 0	Embedded Microcontrollers Database Management Systems Data Communication and PLC Professional Elective – II Open Elective – I	3 3	1 0 0	0 0 0 0	4 4 3 3 3 3	21DCS201P ¹ 21PDM202L ¹ Course	Design Thinking and Methodology Critical and Creative Thinking Skills T Semester – VI Course	0 otal	O Credours	dits s / k	21
21MAB302T 21ECC313P ¹ 21ECC315T 21ECC317T E 0 21GNP301L ¹	Embedded Microcontrollers Database Management Systems Data Communication and PLC Professional Elective – II Open Elective – I Community Connect	3 3	1 0 0	0 0 0 0	4 4 3 3 3 3	21DCS201P 1 21PDM202L 1 Course Code	Design Thinking and Methodology Critical and Creative Thinking Skills T Semester – VI Course Title	0 otal	O Cred	2 dits	0 21 C
21MAB302T 21ECC313P ¹ 21ECC315T 21ECC317T E 0 21GNP301L ¹ 21PDM301L ¹	Embedded Microcontrollers Database Management Systems Data Communication and PLC Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills	3 3 0 0 0	1 0 0 0	0 0 0 0	4 4 3 3 3 3 1 0	21DCS201P 1 21PDM202L 1 Course Code 21CSS303T	Design Thinking and Methodology Critical and Creative Thinking Skills T Semester – VI Course Title Data Science	O Total	O Credours Nee	dits s/ k P	0 21 C
21MAB302T 21ECC313P ¹ 21ECC315T 21ECC317T E 0 21GNP301L ¹ 21PDM301L ¹	Embedded Microcontrollers Database Management Systems Data Communication and PLC Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form	3 3 3 0 0	1 0 0 0 0 0	0 0 0 0 2 2 2	4 4 3 3 3 3 1 0	21DCS201P 1 21PDM202L 1 Course Code 21CSS303T 21ECC312T	Design Thinking and Methodology Critical and Creative Thinking Skills T Semester – VI Course Title Data Science Hardware Interfacing and Networking	O Total	O Cred	2 dits	0 21 C
21MAB302T 21ECC313P ¹ 21ECC315T 21ECC317T E 0 21GNP301L ¹ 21PDM301L ¹	Embedded Microcontrollers Database Management Systems Data Communication and PLC Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form	3 3 0 0 0	1 0 0 0 0 0	0 0 0 0 2 2 2	4 4 3 3 3 3 1 0	21DCS201P 1 21PDM202L 1 Course Code 21CSS303T 21ECC312T	Design Thinking and Methodology Critical and Creative Thinking Skills T Semester – VI Course Title Data Science Hardware Interfacing and Networking Embedded Hardware and Operating	Orotal H L 2 3	O Credours Nee	dits k P 0	0 21 C 2 3
21MAB302T 21ECC313P ¹ 21ECC315T 21ECC317T E 0 21GNP301L ¹ 21PDM301L ¹	Embedded Microcontrollers Database Management Systems Data Communication and PLC Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form	3 3 3 0 0	1 0 0 0 0 0	0 0 0 0 2 2 2	4 4 3 3 3 3 1 0	21DCS201P 1 21PDM202L 1 Course Code 21CSS303T 21ECC312T 21ECC314J 2	Design Thinking and Methodology Critical and Creative Thinking Skills T Semester – VI Course Title Data Science Hardware Interfacing and Networking Embedded Hardware and Operating Systems	O Total	O Cree	dits s/ k P	0 21 C 2 3
21MAB302T 21ECC313P ¹ 21ECC315T 21ECC317T E O 21GNP301L ¹ 21PDM301L ¹ 21LEM301T ¹	Embedded Microcontrollers Database Management Systems Data Communication and PLC Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form To	3 3 3 0 0 1	1 0 0 0 0 0	0 0 0 0 0	4 4 3 3 3 3 1 0	21DCS201P 1 21PDM202L 1 Course Code 21CSS303T 21ECC312T E	Design Thinking and Methodology Critical and Creative Thinking Skills T Semester – VI Course Title Data Science Hardware Interfacing and Networking Embedded Hardware and Operating Systems Professional Elective – III	Orotal H L 2 3	O Cree	dits k P 0	0 21 2 2 3 3 3
21MAB302T 21ECC313P ¹ 21ECC315T 21ECC317T E O 21GNP301L ¹ 21PDM301L ¹ 21LEM301T ¹	Embedded Microcontrollers Database Management Systems Data Communication and PLC Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form To Semester – VII Course	3 3 3 0 0 1 1	0 0 0 0 0 Cree	0 0 0 0 0 2 2 2 0 dits	4 4 3 3 3 3 1 0	21DCS201P1 21PDM202L1 Course Code 21CSS303T 21ECC312T 21ECC314J2 E E	Design Thinking and Methodology Critical and Creative Thinking Skills T Semester – VI Course Title Data Science Hardware Interfacing and Networking Embedded Hardware and Operating Systems Professional Elective – III Professional Elective – IV	Orotal H L 2 3	O Cree	dits k P 0	0 21 C 2 3 3 3
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