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

25. B.Tech. in Computer Science and Engineering (Data Science)

25. (a) Mission of the Department

	1
Mission Stmt – 1	To impart knowledge in cutting edge Computer Science and Engineering technologies in par with industrial standards.
Mission Stmt – 2	To collaborate with renowned academic institutions to uplift innovative research and development in Computer Science and Engineering and its allied fields to serve the needs of society
Mission Stmt _ 3	To demonstrate strong communication skills and possess the ability to design computing systems individually as well as part of a multidisciplinary teams.
Mission Stmt – 4	To instill societal, safety, cultural, environmental, and ethical responsibilities in all professional activities
Mission Stmt – 5	To produce successful Data Science graduates with personal and professional responsibilities and commitment to lifelong learning

25. (b) Program Educational Objectives (PEO)

	Graduates will be able to demonstrate their knowledge in technical/managerial roles with right skills and aptitude in software industries and R&D sectors
PEO – 2	Graduates will possess the proficiencies and additional skills in core computer science and engineering discipline in par with industry requirements.
PEO – 3	Graduates will be able to successfully pursue higher education in reputed institutions and also extend their research career.
PEO – 4	Graduates will be self-empowered solution providers and entrepreneurs in Computer Science and Engineering
PEO – 5	Graduates will possess the ability to adapt, contribute and innovate new technologies and systems in the key domains of Data Science

25. (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	Tradition with	14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1954 - 12	1
P <mark>EO</mark> - 2		21 Y Y H 12 Y 12 Y	2		-
PEO - 3	- 33	3	3	- 2 - 2	- ·
PEO - 4	- 5-7"		TO THE STATE OF	2	3
PEO - 5	Z (");	3	3	2	3

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

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

	- 1)			Pro	gram Out	tcomes (PO)				Jane Britain	Prog	gram <mark>Sp</mark> e	cific
	1	2	3	4	5	6	7	8	9	10	-11	12	Outo	comes (P	SO)
	Engineeri <mark>ng</mark> Knowledge	Problem Analysis	Design/development of solutions	Conduct investigations of complex problems	Modern Tool Usage	The engineer and society	Environment & Sustainability	Ethics	Individual & Team Work	Communication	Project Mgt. & Finance	Life Long Learning	PSO-1	PSO-2	PSO-3
PEO - 1	3		7.0	1	-	2	-	3	2	3		-	3	3	3
PEO - 2	-	2	2		3	-	3	2			-	-	3	3	3
PEO - 3	-	3	3	2	•			•	-	2	-	3	3	3	3
PEO - 4	-	2	3	1	1	3	2	1	2	-	2	2	3	3	3
PEO - 5	3	-	-	-	3	3	-	2	-	3	3	3	3	3	3

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

PSO - Program Specific Outcomes (PSO)

100 Ilog	ram opecine outcomes (100)
PSO - 1	To understand, analyse, design, and develop computing solutions by applying fundamental concepts of computer science and engineering.
PSO - 2	To apply computing principles, skills and practices to develop solutions using logical and reasoning skills for real life problems.
PSO - 3	Ability to understand the requirements, gather a large amount of data, analyze, utilize the tools to extract insights to increase the productivity and efficiency of the business along with better visual representations

25. (e) Program Structure: B.Tech. in Computer Science and Engineering (Data Science)

	Humanities & Social Sciences						Basic Science Courses (B)							
	including Management Courses (H)					Course	` /	Hours /						
Course	Course		ours			Course Code	Course Title	V	Veel					
Code	Title	V	Veel					L	Τ	Р	С			
		L	Ţ	Р	С		Semiconductor Physics and	3	1	2	5			
	Communicative English	2	1	0	3		Computational Methods				_			
21LEH102T							Chemistry	3	1	2	5			
21LEH103T							Calculus and Linear Algebra	3	1	0	4			
	German	2	1	0	3		Advanced Calculus and Complex Analysis	3	1	0	4			
21LEH105T .	Japanese Koroan	2	'	U	J		Transforms and Boundary Value							
	Spanish						Problems	3	1	0	4			
21LEH108T							Probability and Statistics	3	1	0	4			
	Philosophy of Engineering	1	0	2	2	21MAB302T	Discrete Mathematics	3	1	0	4			
	Social Engineering	2	0	0	2		Introduction to Computational Biology	2	0	0	2			
	Behavioral Psychology	2	1	0	3			otal	Cre	dits	32			
			Cred		_	7 1 7								
	Engineering Science Courses (S)						Professional Core Courses (C)							
	Engineering Science Courses (S)	н	ours	. /	1		Frotessional core courses (c)	Гь	lours	- I				
Course	Course		Veel			Course	Course		Nee					
Code	Title	L	T	P	С	Code	Title	T	T	Р	С			
21CSS101J	Programming for Problem Solving	3	0	2	4	04000404	Object Oriented Design and	<u> </u>	Ė					
21MES101L ¹		0	0	4	2	21CSC101T	Programming	2	1	0	3			
21MES102L 1		0	0	4	2	21CSC201J	Data Structures and Algorithms	3	0	2	4			
21EES101T	Electrical and Electronics Engineering	3	1	0	4	21CSC202J	Operating Systems	3	0	2	4			
21CSS202T	Fundamentals of Data Science	3	2	0	5	21CSC206P 1	Advanced Object Oriented Programming		1	0	3			
21DCS201P 1	Design Thinking and Methodology	1	2	0	3	21CSC204J	Design and Analysis of Algorithms	3	0	2	4			
21CSS301T	Full Stack Development	1	1	0	2	21CSC205P 1	Database Management Systems	3	1	0	4			
	To	tal	Cre	dits	22	21CSC206T	Artificial Intelligence	2	1	0	3			
			٠.	-	4	21CSC301T	Formal Language and Automata	3	0	0	3			
	Non Credit Courses (M)					21CSC302J		3	0	2	4			
Course	Course		lours			21CSC303J	Software Engineering and Project	2	0	2	3			
Code	Title	٠,	<u>Nee</u>				Management Compiler Paging	2	0	2	3			
240014041.1	Professional Skills and Practices	0	T 0	P 2	С	21CSC304J 21CSC307P 1	Compiler Design Machine Learning for Data Analytics	2	1	0	3			
	General Aptitude	0	0	2		210303011		otal	Cro	•	•			
	Verbal Reasoning	0	0	2				Otai	OIE	uito	71			
	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		Course	Course		ours					
	Environmental Science	1	0	0	0	Code	Title	V	Veel T	P	C			
	Constitution of India	1	0	0	0	210002517	Wah Bragramming	L			C			
	Universal Human Values – Introduction	1	0	0	0	210303311	Web Programming Python Programming	2	1	0	3			
	Professional Ethics	1	0	0	0		Mobile Application Development		1		3			
	Universal Human Values-II:						Data Analytics	2	1	0	3			
21LEM202T 1	Understanding Harmony and Ethical	2	1	0	3	270000077		otal	-		•			
	Human Conduct							otui	010	uito	00			
	Indian Art Form	1	0	0	0	Project Wor	rk, Seminar, Internship in Industry / Higl	her 1	Гесŀ	nnic	al			
	Indian Traditional Knowledge	1	0	0	0		Institutions (P)							
	Physical and Mental Health using Yoga					Course	Course		urs /	'				
	National Service Scheme	0	0	2	0	Code	Title	W	eek		_			
	National Cadet Corps							L .	_	P	C			
ZTGNMTU4L T	National Sports Organization	of all	Cra	dita	02	21GNP301L		_	0	2	1			
	10	ıldi	Cre	นเเร	U3	21CSP302L		-	-	<u>6</u>	3			
						21CSP303T 21CSP401L		_	0 0 ;	-	15			
						21CSP401L 21CSP402L		-		20	10			
						21CSP402L		-		10	5			
						2100F 403L		tal (_	19			
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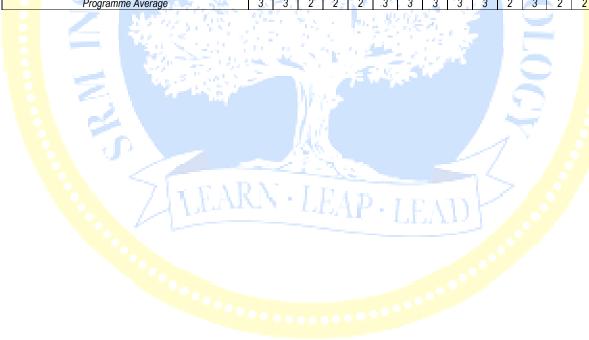
	Professional Elective Courses (E) (Any 8 Courses)						Professional Elective Courses (E)				
Course Code	Course Title		lours Wee	k	0	Course Code	Course Title		lours Wee		0
21CSF222T	Big Data Tools and Techniques	3	0	<u>P</u>	C 3	21CSF421T	Business Intelligence and Analytics	2	1	0	C 3
	Computer Architecture	3	0	0	3		Convolutional Neural Networks	2	1	0	3
	Internet of Things	2	1	0	3	21CSE423T	Big Data Visualization	2	1	0	3
21CSE251T	Digital Image Processing	3	0	0	3	21CSE424T	Deep Learning for Data Analytics	2	1	0	3
21CSE321T	Data Warehousing and Data Mining	2	1	0	3	21CSE425T	Advanced Machine Learning	2	1	0	3
1 / 11 > F.3 / / 1	Multivariate Techniques for Data Analytics	2	1	0	3		Financial Machine Learning Augmented and Virtual Reality	2	1	0	3
21CSE323T	Marketing Analytics	2	1	0	3	21CSE428T	Healthcare Analytics	2	1	0	3
21CSE356T	Natural Language Processing	2	1	0	3	21CSE429T	Data Science for Internet of Things	2	1	0	3
21CSE359T	Information Storage and Management	2	1	0	3	21CSE430T	Automatic Speech Recognition	2	1	0	3
21CSE325T	Applied Social Network Analysis	2	1	0	3	21CSE447T	Robot Motion Planning	2	1	0	3
21CSE326T	Artificial Neural Networks	3	0	0	3	21CSE448T	Bio-inspired Computing and Fuzzy Logic	2	1	0	3
	Cloud Computing for Data Analytics	2	1	0	3	21CSE449T	Risk Analytics	2	1	0	3
21CSE373T	Streaming Analytics	2	1	0	3			Γota	l Cre	edits	24



25. (f) Programme Articulation: B.Tech. in Computer Science and Engineering (Data Science)

					P	Progra	m Ou	tcome	s (PO	1					PSO	
		1	2	3	4	5	6	7	8 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	Communication	Project Mgt. & Finance	ife Long Learning	PSO-1	PSO-2	PSO-3
21LEH102T	Chinese	匝	4	S D	28	Σ	È	ū	Ē	드	3	4	3	ď	å	ď
	French						٠.	7.2			3		3			
21LEH103T									٠.		3		3			
21LEH105T										-	3		3			
	Korean										3		3			
	Spanish Spanish			1			7	-								
	Russian					-	, to		X		3		3			
	Philosophy of Engineering	3	2	3	3	3	2	3	2	3	3	T.	3			
	Calculus and Linear Algebra	3	3						Τ.	7)						
21CYB101J	<u>Chemistry</u>	3	3	3	2	3		1		_	1		k.	•	L	
	Introduction to Computational Biology	3	3	2	1	3			L		1	-				
	Programming for Problem Solving	2	3	12	30		-	-	-	-		ř.	2		3	-
	Basic Civil and Mechanical Workshop	3	- 1	6	44.	- 1		3			T	7.	2			
	Professional Skills and Practices	10	ŭ.	400						3	3		3			
	Physical and Mental Health using Yoga	3	2	2	3	3	3	3	3	3	3	<u> </u>	3			
	NATIONAL SERVICE SCHEME	100		= '			3	3		3						
	NATIONAL CADET CORPS	М.	4				3	4	3	3	0	7				
	Communicative English	_		1					Ε.	2	3					
21DVR102 I	Advanced Calculus and Complex Analysis Semiconductor Physics and Computational	3	3	3	77.2	V	- 1		14		7		7	1		
	Methods			<u> </u>	_	0	- 4:	174	1	-	_		0			
	Engineering Graphics and Design	3	2			3	-		125	-	3		2			
	Electrical and Electronics Engineering Object Oriented Design and Programming	3	2	2	-	2	÷.		-			_	3		2	2
	Environmental Science	3	3	2		2	-	3	-	3	-	-	J	-	2	
	General Aptitude	J	3			-		J		3	3		3			
211 FM101T	Constitution of India		0	H.			3			0	U		3			
	Data Structures and Algorithms	2	3	3	1	_	-	_	_	_	_	-	-	1	1	2
	Fundamentals of Data Science		2									4		1	1	
	Operating Systems	3	3	3	2	-	-	-	-	-	-	-	- 3	2	Ė	7.
	Advanced Object Oriented Programming		2	90						7		7				
21CSC204J	Design and Analysis of Algorithms	2	1	2	1	ī	-	-	-	-	3	-	3	3	1	-
21CSC205P	Database Management Systems	3	2	2	-	-	-	-	-	-	15		-//	2	1	-
21CSC206T	Artificial Intelligence	1	2_	3	-	÷	1	•	-	1	·	1	-	1	2	-
	Formal Language and Automata	2	2	2	7,4	7	1	-	4	1-1	E	- /	-	- <u>,</u>	3	-
	Computer Networks	3	-	-	2	3			11- X	14-1	-	-	-	1	-	-
21CSC307P	Machine Learning for Data Analytics		ļ											2	2	2
21CSS301T	Full Stack Development			ļ										2	1	2
21CSC303J	Software Engineering and Project	-	3	2	-	-	-	-	-	2	. *	2	-	3	_	-
	Management Compiler Design	3	3	2	3	2	-	_	-		_	_	_	_	1	_
	Compiler Design Computer Architecture	3	2	1	J		-					-	-	-	,	
	Big Data Tools and Techniques	J		-		1	11.5							1		
	Internet of Things	1	2	1	3	1	2	-	-	_	_	_	_	-	_	2
	Digital Image Processing	3	2	2	3	-	-	-	-	-	-	-	-	2	3	-
	Data Warehousing and Data Mining	Ť	<u> </u>	T -	Ť									2	2	
	Multivariate Techniques for Data Analytics													2	2	2
	Marketing Analytics								3		3			2	2	1
	Natural Language Processing	3	3	2	3	3	-	-	-	-	-	-	-	2	-	-
21CSE359T	Information Storage and Management	-	3	3	-	1	-	-	-		-	-	-	_1	2	-
21CSE373T	Streaming Analytics	2	2		2	2										
21CSE325T	Applied Social Network Analysis													2	2	2
	Artificial Neural Networks													2	2	2
	Cloud Computing for Data Analytics													1	2	2
21CSE421T	Business Intelligence and Analytics								3		3			2	2	2

					Р	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	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
21CSE422T	Convolutional Neural Networks													2	2	2
	Big Data Visualization										3			2	2	2
	Deep Learning for Data Analytics													2	2	2
21CSE425T	Advanced Machine Learning							٠.,						2	2	2
	Financial Machine Learning													2	2	2
21CSE427T	Augmented and Virtual Reality								1	-				2	2	2
21CSE428T	Healthcare Analytics	F					ŀ			4				2	1	2
21CSE429T	Data Science for Internet of Things			41.		- 1	9	4						2	2	2
	Automatic Speech Recognition						7	4			, ,			2	2	2
21CSE447T	Robot Motion Planning							4		4		L.		2	2	2
21CSE448T	Bio-inspired Computing and Fuzzy Logic						ł		1			1		2	1	2
	Risk Analytics									1	4			1	2	2
21CSO3 <mark>55T</mark>	Machine Learning for All		÷	. "	1				h.,		1		1	2	2	
21CSO356T	Convolutional Neural Networks Foundation		7		1	7.			1			7		2	2	
21CS <mark>O357T</mark>	Data Visualization Basics	4			Ω,	- 3								2	2	_
21CSO451T	Deep Learning Foundation	Ź	ď	100			ŀ					-		2	2	
21CSS303T	Data Science	4,73		7 -		Ε.							-	1	1	
21CSP302L	Project	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	MOOC	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
21CSP401L	Major Project	3	3	3	3	3	3	- 3	3	- 3	3	3	3	3	3	3
	Internship	3	3	3	3	3	3	3	3	3	3	3	3	- 3	3	3
	Programme Average	3	3	2	2	2	-3	3	3	3	3	2	3	2	2	2



25. (g) Implementation Plan: B.Tech. in Computer Science and Engineering (Data Science)

Course	20. (g) IIII	•	10	OII	γu	ιCI	Jerence an	d Engineering (Data Science)				
Course C		Semester – I			. /	I		Semester – II			. 1	_
Course Transforms and Boundary Value Total Credits Zeroscope Transforms and Boundary Value Transforms and Boundary	Course Course				Hours / Course Course							
21LEH103T Chinasse	Code	Title					Code	Title		_		-
21LEH103T German	241 5114025	Chinaga	L	ı	Р	U	241 514047	Communicative English	L		P	C
							ZILEHIUII			1	0	3
21LEH105T Spansts							21MAB102T		3	1	0	4
21LEH106T Computational Methods Society Society Computational Methods Society Computational Methods Society Computational Methods Society Computational Methods Society Society Course Co			_	,	_	2						
211EH107T Spanish			2	7	U	3	21PYB102J	Computational Matheda	3	1	2	5
21/14/1087 Russian 1 0 2 2 21/14/1087 Russian 1 0 2 2 21/14/1087 Calculus and Linear Algebra 3 1 0 4 2 2 21/14/1087 Calculus and Linear Algebra 3 1 0 4 2 2 21/14/1087 Calculus and Linear Algebra 3 1 0 4 2 21/14/1087 Calculus and Linear Algebra 3 1 0 4 2 21/14/1087 Calculus and Linear Algebra 3 1 0 4 2 21/14/1087 Calculus and Linear Algebra 3 1 0 4 2 21/14/1087 Calculus and Linear Algebra 3 1 0 4 2 21/14/1087 Calculus and Linear Algebra 3 1 0 4 2 2 21/14/1087 Calculus and Linear Algebra 3 0 2 4 2 2 2 2 2 2 2 2							21MES1021		Λ	Λ	4	2
2104H011										_	0	4
21/14/14/15/15/15/15/15/15/15/15/15/15/15/15/15/			1	0	2	2		Object Oriented Design and		-	U	4
216781011 Chemistry							21CSC1017		2	1	0	3
21FB102T Introduction to Computational Biology 2 0 0 2 2 1 0 2 2 2 1 0 2 2 2 2 1 0 2 2 2 2 2 2 1 0 2 2 2 2 2 2 2 2 2							21CVM101T		1	Λ	0	0
21/25/2011 Programming for Problems Solving 3 0 2 4			-			-					2	0
21FDM1011 Professional Skills and Practices 0 0 2 0 0 2 0 0 2 0 0					-				1	0	0	0
21PDM101L Professional Skills and Practices 0 0 2 0 0 2 0 0 2 0 0				-			ZILLWIIOII		otal	Cro	dite	21
Professional Elective -			_	-		_			Ulai	OIE	uito	<u> </u>
Vaga	ZIPDMITUIL		U	U	2	U		Semester – IV				
21GNM102L National Service Scheme 0 0 2 0 21GNM103L National Cadel Corps	21GNM101L	1 -					Course	Course				
216NM1031 National Cadel Corps 216NM1041 National Sports Organization Total Credits 22 216NM1041 National Sports Organization National Sports Organizati	24.001.44.021		^	_	0	_				We		
			U	0	2	U			L	_ T		
Semester - III											_	
Course	21GNM104L	National Sports Organization	-4-1	0	114-	20	21CSC204J	Design and Analysis of Algorithms				
Course			otai	Cre	aits	22	21CSC205P	Database Management Systems			_	
Course							21CSC206T	Artificial Intelligence	2	2 1	0	-
Code	0	0	Н	lours	s /							3
21MAB201T			١	Nee	k							
21DCS201P Design Thinking and Methodology 1 2 0 3 3 0 4 21CSC201J Data Structures and Algorithms 3 0 2 4 21CSC202J Departmentals of Data Science 3 2 0 5 5 21CSC202J Operating Systems 3 0 2 4 21CSC208P¹ Professional Elective - II 0 0 0 0 2 0 0 2 0 0	Code	litie	L	Τ	Р	С	21PDM202L		_	0 (2	0
Professional Elective - V	21MAR2017		3	1	0	4	21LEM202T		g	2 1	0	3
21CSC201J Data Structures and Algorithms 3 0 2 4		Problems	_		Ĭ				-4-	l Car	al:4.	- 22
21CSS202T Fundamentals of Data Science 3 2 0 5 21CSC202J Operating Systems 3 0 2 4 21CSC206P Advanced Object Oriented Programming 2 1 0 3 21LEM201T Professional Ethics 1 0 0 0 21PDM201L Verbal Reasoning 0 0 2 0									ota	Cre	aits	i Z3
21CSC202J Operating Systems									,			
Advanced Object Oriented Programming			-	_								
Programming 2	21CSC202J		3	U	2	4	-	Semester – VI				_
Course	21CSC206P		2	1	0	3	Course	Course				
21PDM201L Verbal Reasoning		Programming		^	^	_			_	_		┨_
Semester - V			_			-			<u>L</u>		Р	С
Course	21PDM201L	' Verbai Reasoning	_	_			21CSS301T		1	1	0	2
Course			otai	Cre	aits	23	21CSC303J		2	0	2	3
Course Code		Semester – V						Management			2	2
Code	Course	Course	Н	lours	s /					U	2	3
21MAB302T Discrete Mathematics 3 1 0 4 21CSC301T Formal Language and Automata 3 0 0 3 3 0 2 4 21CSC302J Computer Networks 3 0 0 3 3 0 0 3 2 4 21CSC302J Computer Networks 3 0 0 3 3 0 0 3 2 4 21CSC307P Machine Learning for Data Analytics 2 1 0 3 3 0 0 3 0 0 0 0						ļ						3
21CSC301T Formal Language and Automata 3 0 0 3 21CSC302J Computer Networks 3 0 2 4 21CSC307P Machine Learning for Data Analytics 2 1 0 3 21CSC307P Machine Learning for Data Analytics 2 1 0 3 21CSP303T MOOC 3 0 0 0 0 0 0 0 0 0									-	-	<u> </u>	3
21CSC302J Computer Networks				1	0				0	0	0	3
21 21 21 22 23 23 24 24 24 24 24				0	0						6	3
Course Course Course Code Title Code Code Title Code C				0	_	_			_	_	-	
Total Credits	21CSC307P		2	1	0				-	+	2	0
21GNP301L Community Connect 0 0 2 0	Ε						ZTLEM30ZT				0	0
21PDM301L Analytical and Logical Thinking Skills 0 0 2 0									otai	Cre	aits	20
Course Course Course Course Course Course Code Title Code C					2							
Total Credits 21 Course Code Title Code Code Title Code C			0	0	_	0		Semester - VIII				
Code	21LEM301T								Н	ours	/	
Course			otal	Cre	dits	21			V	/eek		
Course		Competer VIII					111		L	T	Р	С
Course Code		Semester – VII		l	. /	1	21CSP401	L Major Project	0		30	15
Code	Course	Course							0		20	10
21GNH401T Behavioral Psychology 2 1 0 3 E Professional Elective – V 3 3 E Professional Elective – VI 3 3 E Professional Elective – VI 3 3 E Professional Elective – VII 3 3 E Professional Elective – VII 3 3 O Open Elective – III 3 3			٠ ١			_			_		10	5
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