#### **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

### 27. B.Tech. in Computer Science and Engineering with Specialization in Information Technology/B.Tech. in Information Technology

27. (a) Mission of the Department

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 Computer Science and Engineering graduates with personal and professional responsibilities and commitment to lifelong learning

27. (b) Program Educational Objectives (PEO)

	Graduates will be able to perform in technical/managerial roles ranging from design, development, problem solving to production support in software industries and R&D sectors.
PEO – 2	Graduates will be able to successfully pursue higher education in reputed institutions.
PEO – 3	Graduates will have the ability to adapt, contribute and innovate new technologies and systems in the key domains of Computer Science and Engineering.
PEO – 4	Graduates will be ethically and socially responsible solution providers and entrepreneurs in Computer Science and other engineering disciplines.
PEO – 5	Graduates will possess the additional skills in core computer science discipline with knowledge of Hardware, Software, Programming, and Logic & Reasoning.

27. (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
PEO - 1	3		The British		)
PEO - 2	2500	V 1995	2 1.5	<b>新加州</b>	(
PEO-3	E	3	3		
PEO - 4	- 143.		E / 3 F / 12	2	3
<b>PE</b> O - 5	4 1 1 1 1 1 1 1			K- 3 :-	3

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

	1	n			Pr	ogram C	Outcome	s (PO)				7		ram Spe comes (F			
	1	2	3	4	5	6	7	8	9	10	11	12			1		
	Engineering	Problem Analysis	Design/development of solutions	Conduct investigations of	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		-	1	-	2	-	3	2	3	-			-	-		
PEO - 2	-	2	2	-	3	-	3	2	-	-			2	-	-		
PEO - 3		3	3	2	-	-	-	-	-	2		3	-	2	2		
PEO - 4	-	2	3			3	2		2		2	2	-	2	-		
PEO - 5	2	3	-	-		2	-	3	3	3	-	-	-	-	2		

<sup>3 –</sup> High Correlation, 2 – Medium Correlation, 1 – Low Correlation

PSO - Program Specific Outcomes (PSO)

- or out o wood o (- o o )
To understand, analyze, design, and develop computing solutions by applying fundamental concepts of computer science and engineering.
To apply computing principles, skills and practices to develop solutions using logical and reasoning skills, for real life
problems.
To become socially responsible technocrats by incorporating ethical principles in developing intelligent applications
related to algorithms, networking, web design, cloud computing, IoT and data Analytics that are capable to adapt
emerging technological changes.

# 27. (e) Program Structure: B.Tech. in Computer Science and Engineering with Specialization in Information Technology/B.Tech. in Information Technology

	Humanities & Social Sciences						Basic Science Courses (B)				
	including Management Courses (H)					0	, ,	H	lours	s /	
Cauraa	Course	Н	ours	<i>i  </i>		Course Code	Course Title		Wee		
Course Code	Course Title	٧	Veel	K		Code	Title	L	Τ	Р	С
		L	Τ	Р	С	21PYB102J S	Semiconductor Physics and	2	1	2	_
21LEH101T	Communicative English	2	1	0	3		Computational Methods	3	1	2	5
21LEH102T	1LEH102T Chinese					21CYB101J C	Chemistry	3	1	2	5
21LEH103T	French					21MAB101T C	Calculus and Linear Algebra	3	1	0	4
21LEH104T						21MAB102T A	dvanced Calculus and Complex	3	1	0	4
21LEH105T		2	1	0	3	Α	nalysis	J	'		4
21LEH106T	Korean						lumerical Methods and Analysis	3	1	0	4
	Spanish						Probability and Queuing Theory	3	1	0	4
21LEH108T							Discrete Mathematics	3	1	0	4
	Philosophy of Engineering	1	0	2	2	21BTB102T  Ir	ntroduction to Computational Biology	2	0	0	2
	Social Engineering	2	0	0	2			Total	Cre	dits	32
21GNH401T	Behavioral Psychology	2	1	0	3		Professional Core Courses (C)				
	T	otal	Cre	dits	13		, ,	-	lour	2 /	
	Engineering Science Courses (S)					Course	Course		Wee		
	<b>Y Y Y Y</b>	Н	ours	:/		Code	Title	Т	ΙΤ	Р	С
Course	Course		Veel	-			Object Oriented Design and		•		
Code	Title	L	T	P	С		Programming	2	1	0	3
21CSS101J	Programming for Problem Solving	3	0	2	4		Data Structures and Algorithms	3	0	2	4
21MES101L		0	0	4	2		Operating Systems	3	0	2	4
21MES102L		0	0	4	2		Advanced Programming Practice	3	1	0	4
21EES101T	0 0 1	3	1	0	4		Design and Analysis of Algorithms	3	0	2	4
	Commuter Organization and		,	•			Database Management Systems	3	1	0	4
21CSS201T	Architecture	3	1	0	4		Artificial Intelligence	2	1	0	3
21DCS201P	Design Thinking and Methodology	1	2	0	3		Formal Language and Automata	3	0	0	3
21CSS303T		2	0	0	2		Computer Networks	3	0	2	4
	T	otal	Cre	dits	21		Software Engineering and Project		1		
	Non Credit Courses (M)						Management	2	0	2	3
	Non Credit Courses (W)	П	ours	. /		21CSC317J	Information Retrieval Techniques	2	0	2	3
Course	Course		Vee			21CSC314P 1	Big Data Essentials	2	1	0	3
Code	Title	Η,	T	Р	С			Total	Cre	dits	42
21PDM101L1	Professional Skills and Practices	0	0	2	Ĭ		Open Elective Courses (O)				
21PDM101L		0	0	2	1		(Any 3 courses)				
	Verbal Reasoning	0	0	2		_		H	lours	: /	
	Critical and Creative Thinking Skills	0	0	2	0	Course	Course		Wee		
	Analytical and Logical Thinking Skills	0	0	2		Code	Title	T	Т	Р	С
	Employability Skills and Practices	0	0	2		21CSO351T W	eb Programming	2	1	0	3
	Environmental Science	1	0	0	0		vthon Programming	2	1	0	3
21LEM101T <sup>1</sup>	Constitution of India	1	0	0			obile Application Development	2	1	0	3
	Universal Human Values – Introduction	1	0	0		21CSO354T Da		2	1	0	3
	Professional Ethics	1	0	0	0		,	Total	Cre		·
ZILLIVIZOTI	Universal Human Values-II:	<u> </u>	U	U	U						
21LEM202T 1	Understanding Harmony and Ethical	2	1	0	3	Project Work	, Seminar, Internship in Industry / H	igher	Tech	nnic	al
L'ILLMILOL!	Human Conduct	-		ľ	ľ	-	Institutions (P)	_			
21LEM301T <sup>1</sup>	Indian Art Form	1	0	0	0	Course	Course	Н	ours	1	
	Indian Traditional Knowledge	1	0	0	0	Course	Title	W	/eek		
	Physical and Mental Health using Yoga	Ė						L	T	Р	С
	National Service Scheme	_	_	_		21GNP301L <sup>1</sup>			0	2	1
	National Cadet Corps	0	0	2	0	21CSP302L 1	Project		0	6	3
	National Sports Organization					21CSP303T <sup>1</sup>	MOOC	3	0	0	J
		otal	Cre	dits	03	21CSP401L	Major Project	0		30	15
	•					21CSP402L	Major Project	0		20	10
						21CSP403L	Internship#		_	10	5
								Total	Crec	lits	19
									_	_	_

	Professional Elective Courses (E) (Any 8 Courses)						Professional Elective Courses (E				
Course Code	Course Title		ours Veel	K		Course Code	Course Title		lours Neel	k	
		L	Τ	Р	С			L	Τ	Р	С
	Digital Image Processing	3	0	0	3		Streaming Analytics	2	1	0	3
21CSE254T	Bio Inspired Computing	2	1	0	3		Pattern Recognition Techniques	2	1	0	3
21CSE267T	Statistics for Machine Learning	2	1	0	3	21CSE454T	Computer Vision	2	1	0	3
21CSE281T	Cryptography and Network Security	2	1	0	3	21CSE456T	Software Defined Networks	2	1	0	3
21CSE351T	Computational Logic	2	1	0	3	21CSE457T	Service Oriented Architecture	2	1	0	3
21CSE352T	Neuro Fuzzy and Genetic Programming	2	1	0	3		Network Protocols and Algorithms Applied Graph Theory	2	1	0	3
	Data Mining and Analytics	2	1	0	3		Logical Deduction and Non-verbal				
	Natural Language Processing	2	1	0	3	21CSE476T	Reasoning	2	7	0	3
	Information Storage and Management	2	1	0	3	040054777	Cloud Native Architecture for Modern	2	1	^	2
21CSE361T	Database Security and Privacy	2	1	0	3	21CSE477T	Platforms	2	7	0	3
21CSE354T	Full Stack Web Development	2	1	0	3	21CSE479T	Fault Tolerant Systems	2	1	0	3
21CSE362T	Cloud Computing	2	1	0	3	21CSE480T	Image and Video Processing	2	1	0	3
21CSE310J	Quantum Computation	2	0	2	3			Total	Cre	dits	24



# 27. (f) Programme Articulation: B.Tech. in Computer Science and Engineering with Specialization in Information Technology/B.Tech. in Information Technology

Course Code  Course Name  Cours						F	rogra	ım Ou	tcome	s (PO	)					PSO	
Course Code			1	2	3							10	11	12	1	2	3
21CSS2017   Programming for Problem Solving   2   3   -   -   -   -   -   -   -   -   2   -   3   -   2   -   3   -   -   -   -   -   -   -   -		Course Name	owledge	sis	ment of	gations of ms	sage	nd society	Sustainability		am Work	_	-inance	ing			
21CSS2037  Data Science							Modern Tool U						Project Mgt.		PSO-1		
21CSS2017   Computer New Computer New Computer New North New Computer New North New No					-					_					-	-	-
21CSC2011 Data Structures and Algorithms					-	-	-	-			4	-	-	-			-
21CSC2017   Object Oriented Design and Programming   -   2   2   -   2   -   -   -   -   3   3   3   1   -								-	-	-	-	-	-	-			
21CSC202J			2	3	3	1	1	-	-	-	-		-	-	1	1	2
21CSC202J   Operating Systems			- 1	2	_ 2	7.4	2	7-		-	-			3	-	2	2
Software Engineering and Project   - 3 2 2 2 2 - 2 - 3 - 2   - 3 3 - 2   2 2 - 2 - 3 3 2   2 2	21CSC204J	Design and Analysis of Algorithms	2	1	2	1	-	100	4	Æ	-	3		3	3	1	-
21CSC2031			3	3	3	2	-	-	40	1.7	-	-		3	2	-	-
21CSC301T   Formal Language and Automata	210903031	Software Engineering and Project	•	3	2	-	-	-	N.		2	Ā	2		3	-	-
21CSC301T   Formal Language and Automata	21CSC203P	Advanced Programming Practice	3	2	2	1	2	-	-	-	1	~	F		2	-	-
21CSC205P   Database Management Systems   3   -     2   3   -     -   -   -   -   -   -   -			2	2	2	7-12		-	-	-		T	P.	-		3	-
21CSC205P       Database Management Systems       3       2       2       -			3			2	- 3	-	-	-	-	Ŧ	7.7	-	1		-
21CSC206T			3	- 2	2		-	-	-	_	-	-	-	٦ -	2	1	-
21CSC317J   Information Retrieval Techniques   3   2   3   3     2   2   3   3   2   CSE267T   Statistics for Machine Learning   3   3   2     3   2   3   3   2   CSE251T   Digital Image Processing   3   2   2   2   2     2   3   3   2   2   3   2   2   2   2						- 7			1_	-	-	-		-	1	2	-
21CSE267T   Statistics for Machine Learning   3   3   2   -   -   -   -   -   -   -   3   2   3   21CSE251T   Digital Image Processing   3   2   2   3   -   -   -   -   -   -   2   3   3   21CSE251T   Digital Image Processing   2   2   2   2   -   -   -   -   -   -			3 -			3	- 1	432		-		_			2		3
21CSE254T   Digital Image Processing   3							4.71		-	-		-					
2					2			-	- 1	7.			-	- 2			
21CSE351T   Computational Logic   3   3   -   -   -   -   -   -   -   -											227		-	_	_		
21CSE352T   Neuro Fuzzy and Genetic Programming   2   3   -   -   3   -   -   -   -   -   -							_				T		-		ς		
21CSE358T   Full Stack Web Development   3   2   2   -   -   -   -   -   -   -   -							.3	100	160		-		_			2	-
21CSE358T   Network Security and Cryptography   2   3   2   - 2     - 2       2       2       2       2       2       2       2       2       2       2       2       2       2   2						-			12.7		1	_	-	_	2		<b>.</b>
21CSE359T   Information Storage and Management   -   3   3   -   1   -   -   -   -   -   -   -   1   2   -								_		-			_				=_
21CSE361T   Database Security and Privacy   3   2   2   2   1   -   -   -   -   -   -   2   1   -   -   -   2   1   -   -   -   2   1   -   -   -   2   1   -   -   -   2   1   -   -   -   2   1   -   -   -   -   2   1   -   -   -   -   2   1   -   -   -   -   -   -   -   -   -													-				
21CSE362T       Cloud Computing       2       1       1       1       2       - <td>21CSE361T</td> <td></td> <td>2</td> <td>_</td> <td></td> <td></td>	21CSE361T													2	_		
21CSE373T       Streaming Analytics       2       2       -       2       2       -       -       -       -       -       -       2       3       3         21CSE451T       Pattern Recognition Techniques       3       2       2       -						_											
21CSE451T       Pattern Recognition Techniques       3       2       2       -											_			-			
21CSE454T       Computer Vision       2       2       1       1       1       - <td>21CSF451T</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></td> <td></td> <td></td>	21CSF451T										_						
21CSE456T       Software Defined Networks       1       1       1       1       1       3       1       2       -					_								_				
21CSE457T         Service Oriented Architecture         2         1         2         -						_			_			-	46	٧.			
21CSE460T         Network Protocols and Algorithms         1         2         1         -														_			
21CSE475T       Applied Graph Theory       2       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><td></td><td></td><td></td><td></td><td></td><td></td></td<>							_										
21CSE476T       Logical Deduction and Non-Verbal Reasoning       3       2       -       3       1       -								_						_	2	3	
21CSE477T       Cloud Native Architecture for Modern Platforms       2       3       3       2       -	240054767	Logical Deduction and Non-Verbal	- 3	-	Ť		Ð	-	T	1	17	-	7	2		7	-
21CSE480T   Image and Video Processing     3     2     2     3     -     <	21CSE477T	Cloud Native Architecture for Modern	2	3	3	3	2	-	-1	ni k	2	٦.	74		7-	2	3
21CSE480T   Image and Video Processing     3     2     2     3     -     <	21CSE479T	Fault tolerant Systems	2	3		3		-	-				-7	- 2	3		3
21CSP302L       Project       2					2		-	-	-	-				-		3	
21CSP303T MOOC       2							2	2	2	2	2	2	2	2			
21CSP401L     Major Project     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><td></td><td></td><td></td><td></td><td></td><td></td></td<>																	
21CSP402L       Major Project       3																	
21CSP403L Internship 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3																	
											-		-			-	
	2.00. 100L												_				

# 27. (g) Implementation Plan: B.Tech. in Computer Science and Engineering with Specialization in Information Technology/B.Tech. in Information Technology

Course		Semester – I						Semester – II				
Code			Ιŀ	lours	; /				T	lours	s /	
2   1   1   2   2   1   0   3   2   2   1   0   3   2   2   2   1   0   3   2   2   2   2   1   0   3   3   2   2   2   2   2   3   3   2   2			١	Neel	K				١ ١	Wee	k	
	Code	Little	L	Τ	Р	С	Code	litle	L	Τ	Р	С
2   11.11.01.03	21LEH102T	Chinese					21LEH101T (	Communicative English	2	1	0	3
2   1   1   2   2   2   1   2   3   2   2   2   2   2   2   2   2	21LEH103T	French							2	1	٥	1
	21LEH104T	German					ZTIVIADTUZT	Analysis	3	,	U	4
	21LEH105T	Japanese	2	1	0	3	21DVD1021	Semiconductor Physics and	2	1	2	5
	21LEH106T	Korean					ZIPYBIUZJ	Computational Methods	3	,	2	5
2	21LEH107T	Spanish					21MES102L 1 L	Engineering Graphics and Design	0	0	4	2
2   14   10   11   2   2   2   2   2   2   2   3   0   0   2   2   2   2   2   2   2   3   0   0   2   2   2   2   2   2   2   2							21EES101T	Electrical and Electronics Engineering	3	1	0	4
			1	0	2	2	210001017	Object Oriented Design and	2	1	^	2
21/21/31/11   Chemistry									2	7	U	3
271511027   Introduction to Computational Biology   2   0   0   2   0   2   2   2   2   2					_	5	21CYM101T 1	Environmental Science*	1	0	0	0
21CSS 0101   Programming for Problem Solving   3   0   0   4   2   21MES 1011   Basic Civil and Mechanical Workshop   0   0   0   2   0   2   21MES 1011   Professional Stills and Practices   0   0   2   0   0   2   0   0   2   0   0				-	_			General Aptitude*	0	0	2	0
									1	0	_	0
Professional Skills and Practices			_						Total	Cre	dits	21
Physical and Mental Health using yoad   2   2   2   2   3   3   1   0   4   2   2   4   2   2   2   2   3   3   0   0   2   0   2   2   2   2   2   2				-						-		
Course   Computer Organization and   3   1   0   4   4   4   4   4   4   4   4   4		Dhysical and Mantal Health using	U	U		U		Semester – IV				
21GNM103.1   National Service Scheme	21GNM101L						Course	Course				
21GNM103L   National Cardet Corps   Total   Credits   Z2   Course   Code   Course   Title   Course   Code   Course   Code   Course   Code	21GNM1021	<u> </u>	n	0	2	0			L			1
				U	2	U					_	_
Semester - III											_	_
Semester - III	21GINWITU4L		otal	Cro	dita	22						
Course Code			uldi	OIG	นเเร	22					·	
Course   C		Semester – III							- 1	2 1	0	
Code   Title     Velocity   Title   Velocity   Ti	Course	Course						Professional Elective-I				3
21MAB200T   Numerical Methods and Analysis   3   0   4   2   1   0   0   2   0   3   3   0   4   2   1   0   4   2   1   0   3   3   0   4   2   1   0   4   2   1   0   3   3   3   0   4   2   1   0   3   3   3   0   4   2   1   0   3   3   3   0   2   4   2   1   0   3   3   3   0   2   4   2   1   0   3   3   3   0   2   4   2   1   0   3   3   3   0   2   4   2   1   0   3   3   3   0   2   4   2   1   0   3   3   3   0   2   4   2   1   0   3   3   3   0   2   4   2   1   0   3   3   3   3   3   3   3   3   3			١	Neel								
21CSS201P   Design Thinking and Methodology			L	Τ	_		21PDM202L <sup>1</sup>	Critical and Creative Thinking Skills		0 0	2	0
According			3	_	_			Universal Human Values-II:				
Architecture	21DCS201P		1	2	0	3	21LEM202T 1	Understanding Harmony and Ethical		2   1	0	3
Architecture	21000201T	Computer Organization and	2	1	٥	1		Human Conduct				
21CSC203J			3	'	U	4			Tota	l Cre	edits	23
Advanced Programming Practice   3   1   0   4   21LEM201T    Professional Ethics   1   0   0   0   0   0   0   0   0   0									· Otu	. •		
Advance Organization   Professional Ethics				0			COR 11 12	- Carlotte 1	1014			
Verbal Reasoning		Operating Systems					X 1 E 1 1 2	Somester VI	Tota			1
Total Credits   23	21CSC202J	Operating Systems	3	0	2	4	1 P 1 2	Semester – VI				
Semester - V   Semester - V   Course Code	21CSC202J 21CSC203P	Operating Systems Advanced Programming Practice	3	0	2 0 0	4	Course		F	lours	s /	
Course Code	21CSC202J 21CSC203P 21LEM201T	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning	3 3 1 0	0 1 0 0	2 0 0 2	4 4 0 0		Course	F	lours Wee	s / k	
Course Code	21CSC202J 21CSC203P 21LEM201T	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning	3 3 1 0	0 1 0 0	2 0 0 2	4 4 0 0	Code	Course Title	F,	lours Wee	s / k	С
Value	21CSC202J 21CSC203P 21LEM201T	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning	3 3 1 0	0 1 0 0	2 0 0 2	4 4 0 0	Code 21CSS303T	Course Title Data Science	L 2	lours Wee	s / k	С
Course   Course   Course   Course   Course   Course   Course   Code   Title   Course   Code   Title   Community   Connect   Code   Title   Community   Connect   Code   Code   Title   Community   Connect   Code	21CSC202J 21CSC203P 21LEM201T	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning	3 3 1 0	0 1 0 0 Cre	2 0 0 2 dits	4 4 0 0	Code 21CSS303T	Course Title  Data Science Software Engineering and Project	L 2	lours Wee	s / k P	C 2
21MAB302T   Discrete Mathematics   3   1   0   4   21CSC301T   Formal Language and Automata   3   0   0   3   3   21CSC302J   Computer Networks   3   0   2   4   21CSC314P   Big Data Essentials   2   1   0   3   3   21CSC314P   Big Data Essentials   2   1   0   3   3   21CSC314P   Big Data Essentials   2   1   0   3   3   21CSC314P   Big Data Essentials   2   1   0   3   3   3   0   0   2   0   0   0   0   0   0   0	21CSC202J 21CSC203P 21LEM201T 21PDM201L	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning T Semester – V	3 3 1 0 otal	0 1 0 0 Cred	2 0 0 2 dits	4 4 0 0	Code  21CSS303T  21CSC303J	Course Title  Data Science Software Engineering and Project Management	L 2 2	Hours Wee T 0	k P 0	C 2 3
21CSC301T   Formal Language and Automata   3   0   0   3   2   4   21CSC302J   Computer Networks   3   0   2   4   21CSC314P   Big Data Essentials   2   1   0   3   3   0   0   3   2   4   21CSC314P   Big Data Essentials   2   1   0   3   3   0   0   3   3   0   0   3   3	21CSC202J 21CSC203P 21LEM201T 21PDM201L	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning  Semester – V  Course	3 3 1 0 otal	0 1 0 0 Cre	2 0 0 2 dits	4 4 0 0 23	Code 21CSS303T 21CSC303J 21CSC317J	Course Title  Data Science Software Engineering and Project Management Information Retrieval Techniques	L 2 2	Hours Wee T 0	k P 0	C 2 3 3
21CSC302J   Computer Networks   3   0   2   4   21CSC314P   Big Data Essentials   2   1   0   3   3   0   2   4   21CSC314P   Big Data Essentials   2   1   0   3   3   0   0   3   3   0   0   3   3	21CSC202J 21CSC203P 21LEM201T 21PDM201L Course Code	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning  T  Semester – V  Course Title	3 3 1 0 otal	0 1 0 0 Cred	2 0 0 2 dits	4 4 0 0 23	Code 21CSS303T 21CSC303J 21CSC317J E	Course Title  Data Science Software Engineering and Project Management Information Retrieval Techniques Professional Elective – III	L 2 2	Hours Wee T 0	k P 0	C 2 3 3 3 3
21CSC314P   Big Data Essentials   2	21CSC202J 21CSC203P 21LEM201T 21PDM201L Course Code 21MAB302T	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning  T  Semester – V  Course Title Discrete Mathematics	3 3 1 0 otal	0 1 0 0 Cred	2 0 0 2 dits	4 4 0 0 23	Code  21CSS303T  21CSC303J  21CSC317J  E  E	Course Title  Data Science Software Engineering and Project Management Information Retrieval Techniques Professional Elective – III Professional Elective – IV	L 2 2	Hours Wee T 0	k P 0	C 2 3 3 3 3 3 3
E	21CSC202J 21CSC203P 21LEM201T 21PDM201L Course Code 21MAB302T 21CSC301T	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning  T  Semester – V  Course Title Discrete Mathematics Formal Language and Automata	3 3 1 0 otal	0 0 0 0 Credours Weel T	2 0 0 2 dits	4 4 0 0 23 C 4 3	Code  21CSS303T  21CSC303J  21CSC317J  E  E  O	Course Title  Data Science Software Engineering and Project Management Information Retrieval Techniques Professional Elective – III Professional Elective – IV Open Elective – II	L 2 2 2	Hours Wee	SS / k P O 2 2	C 2 3 3 3 3 3 3
O         Open Elective − I         Jarray         3 graph         21LEM302T¹ Indian Traditional Knowledge         1 0 0 0         0 0 0         2 1 modian Traditional Knowledge         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 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         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         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         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 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 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 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21CSC202J 21CSC203P 21LEM201T 21PDM201L Course Code 21MAB302T 21CSC301T 21CSC302J	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning  T  Semester – V  Course Title Discrete Mathematics Formal Language and Automata Computer Networks	3 3 1 0 Total	0 1 0 0 Cree	2 0 0 2 dits	4 4 0 0 23 C 4 3 4	Code  21CSS303T  21CSC303J  21CSC317J  E  E  O  21CSP302L <sup>1</sup>	Course Title  Data Science Software Engineering and Project Management Information Retrieval Techniques Professional Elective – III Professional Elective – IV Open Elective – II Project	L 2 2 2 0	Hours Wee T 0 0 0	8 / k P 0 2 2 2 6	C 2 3 3 3 3 3 3 3 3
Community Connect   O   O   Z   T	21CSC202J 21CSC203P 21LEM201T 21PDM201L Course Code 21MAB302T 21CSC301T 21CSC302J 21CSC314P	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning  T  Semester – V  Course Title Discrete Mathematics Formal Language and Automata Computer Networks Big Data Essentials	3 3 1 0 Total	0 1 0 0 Cree	2 0 0 2 dits	4 4 0 0 23 C C 4 3 4 3	Code  21CSS303T  21CSC303J  21CSC317J  E  E  O  21CSP302L <sup>1</sup> 21CSP303T <sup>1</sup>	Course Title  Data Science Software Engineering and Project Management Information Retrieval Techniques Professional Elective – III Professional Elective – IV Open Elective – II Project MOOC	L 2 2 2 0 0 3	Hours Wee T 0 0 0	S / k P 0 2 2 2 6 0	C 2 3 3 3 3 3 3 3 3 3 3
21PDM301L   Analytical and Logical Thinking Skills   0   0   2   0	21CSC202J 21CSC203P 21LEM201T 21PDM201L Course Code 21MAB302T 21CSC302J 21CSC314P E	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning  T  Semester – V  Course Title Discrete Mathematics Formal Language and Automata Computer Networks Big Data Essentials Professional Elective – II	3 3 1 0 Total	0 1 0 0 Cree	2 0 0 2 dits	4 4 0 0 23 C 4 3 4 3 3	Code  21CSS303T  21CSC317J  E  C  21CSP302L  21CSP303T  21PDM302L  21CDSP302L  21PDM302L	Course Title  Data Science Software Engineering and Project Management Information Retrieval Techniques Professional Elective – III Professional Elective – IV Open Elective – II Project MOOC Employability Skills and Practices	L 2 2 2 2 3 3 0 0	Hours Wee T 0 0 0 0 0 0	S / k P 0 2 2 2 6 6 0 2 2	C 2 3 3 3 3 3 3 3 0 0
Total Credits   21   Course   Course   Code   Title   Title   Code   Title   Course   Code   Title   Course   Code   Title   Course   Code	21CSC202J 21CSC203P 21LEM201T 21PDM201L Course Code 21MAB302T 21CSC301T 21CSC302J 21CSC314P E 0	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning  T  Semester – V  Course Title Discrete Mathematics Formal Language and Automata Computer Networks Big Data Essentials Professional Elective – II Open Elective – I	3 3 1 0 Cotal	0 1 0 0 Cree	2 0 0 2 2 ddits P 0 0 2 0	4 4 0 0 23 C 4 3 4 3 3 3	Code  21CSS303T  21CSC317J  E  C  21CSP302L  21CSP303T  21PDM302L  21CDSP302L  21PDM302L	Course Title  Data Science Software Engineering and Project Management Information Retrieval Techniques Professional Elective – III Professional Elective – IV Open Elective – II Project MOOC Employability Skills and Practices Indian Traditional Knowledge	L 2 2 2 2 0 0 3 3 0 1 1	Hours Wee T 0 0 0 0 0 0 0 0 0	S / k P 0 2 2 0 6 0 2 0 0	C 2 3 3 3 3 3 3 3 0 0 0
Total Credits   21	21CSC202J 21CSC203P 21LEM201T 21PDM201L Course Code 21MAB302T 21CSC301T 21CSC302J 21CSC314P E 0 21GNP301L	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning  T  Semester – V  Course Title Discrete Mathematics Formal Language and Automata Computer Networks Big Data Essentials Professional Elective – II Open Elective – I Community Connect	3 3 1 0 otal	0 1 0 0 Cree	2 0 0 2 2 ddits P 0 0 2 0	4 4 0 0 23 C 4 3 4 3 3 1	Code  21CSS303T  21CSC317J  E  C  21CSP302L  21CSP303T  21PDM302L  21CDSP302L  21PDM302L	Course Title  Data Science Software Engineering and Project Management Information Retrieval Techniques Professional Elective – III Professional Elective – IV Open Elective – II Project MOOC Employability Skills and Practices Indian Traditional Knowledge	L 2 2 2 2 0 0 3 3 0 1 1	Hours Wee T 0 0 0 0 0 0 0 0 0	S / k P 0 2 2 0 6 0 2 0 0	C 2 3 3 3 3 3 3 3 0 0 0
Course   Course   Course   Code   Title   Code   Title   Code   Course   Code   Code	21CSC202J 21CSC203P 21LEM201T 21PDM201L Course Code 21MAB302T 21CSC301T 21CSC302J 21CSC314P E 0 21GNP301L 21PDM301L	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning  T  Semester – V  Course Title Discrete Mathematics Formal Language and Automata Computer Networks Big Data Essentials Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills	3 3 1 0 otal	0 0 0 0 Cre Veel T 1 0 0 1	2 0 0 2 2 dits P 0 0 2 0 2 0	4 4 0 0 23 C 4 3 4 3 3 1 0	Code  21CSS303T  21CSC317J  E  C  21CSP302L  21CSP303T  21PDM302L  21CDSP302L  21PDM302L	Course Title  Data Science Software Engineering and Project Management Information Retrieval Techniques Professional Elective – III Professional Elective – IV Open Elective – II Project MOOC Employability Skills and Practices Indian Traditional Knowledge	L 2 2 2 2 0 0 3 3 0 1 1	Hours Wee T 0 0 0 0 0 0 0 0 0	S / k P 0 2 2 0 6 0 2 0 0	C 2 3 3 3 3 3 3 3 0 0 0
Course   Course   Code   Title   Code   Title   Code   Title   Code	21CSC202J 21CSC203P 21LEM201T 21PDM201L Course Code 21MAB302T 21CSC301T 21CSC302J 21CSC314P E 0 21GNP301L 21PDM301L	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning  T  Semester – V  Course Title Discrete Mathematics Formal Language and Automata Computer Networks Big Data Essentials Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form	3 3 1 0 otal	0 0 0 0 Cre Veel T 1 0 0 1	2 0 0 2 2 dits P 0 0 2 0 2 0	4 4 0 0 23 C 4 3 3 3 1 0 0	Code  21CSS303T  21CSC317J  E  C  21CSP302L  21CSP303T  21PDM302L  21CDSP302L  21PDM302L	Course Title  Data Science Software Engineering and Project Management Information Retrieval Techniques Professional Elective – III Professional Elective – IV Open Elective – II Project MOOC Employability Skills and Practices Indian Traditional Knowledge	L 2 2 2 2 0 0 3 3 0 1 1	Hours Wee T 0 0 0 0 0 0 0 0 0	S / k P 0 2 2 6 0 2 0	C 2 3 3 3 3 3 3 3 0 0 0
Course   Course   Code   Title   Code   Title   Code   Code   Title   Code	21CSC202J 21CSC203P 21LEM201T 21PDM201L Course Code 21MAB302T 21CSC301T 21CSC302J 21CSC314P E 0 21GNP301L 21PDM301L	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning  T  Semester – V  Course Title Discrete Mathematics Formal Language and Automata Computer Networks Big Data Essentials Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form	3 3 1 0 otal	0 0 0 0 Cre Veel T 1 0 0 1	2 0 0 2 2 dits P 0 0 2 0 2 0	4 4 0 0 23 C 4 3 3 3 1 0 0	Code  21CSS303T  21CSC317J  E  C  21CSP302L  21CSP303L  21CSP303T  21PDM302L  21LEM302T	Course Title  Data Science Software Engineering and Project Management Information Retrieval Techniques Professional Elective – III Professional Elective – IV Open Elective – II Project MOOC Employability Skills and Practices Indian Traditional Knowledge  Semester - VIII	L 2 2 2 0 0 3 0 1 Total	Hours Weee T 0 0 0 0 Cree	6 0 2 2 0 dits	C 2 3 3 3 3 3 3 3 0 0 0
Course Code         Course Title         Hours/Week         2         Code         21CSP401L         Major Project         0         0         0         0         0         10         30         15           21GNH401T         Behavioral Psychology         2         1         0         3         21CSP402L         Major Project         0	21CSC202J 21CSC203P 21LEM201T 21PDM201L Course Code 21MAB302T 21CSC301T 21CSC302J 21CSC314P E 0 21GNP301L 21PDM301L	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning  T  Semester – V  Course Title Discrete Mathematics Formal Language and Automata Computer Networks Big Data Essentials Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form	3 3 1 0 otal	0 0 0 0 Cre Veel T 1 0 0 1	2 0 0 2 2 dits P 0 0 2 0 2 0	4 4 0 0 23 C 4 3 3 3 1 0 0	Code  21CSS303T  21CSC317J  E  C  21CSP302L  21CSP302L  21CSP303T  21PDM302L  21LEM302T  Course	Course Title  Data Science Software Engineering and Project Management Information Retrieval Techniques Professional Elective – III Professional Elective – IV Open Elective – II Project MOOC Employability Skills and Practices Indian Traditional Knowledge  Semester - VIII Course	He	Hours Weee T 0 0 0 0 Cree	6 0 2 2 0 dits	C 2 3 3 3 3 3 3 3 0 0 0
Code	21CSC202J 21CSC203P 21LEM201T 21PDM201L Course Code 21MAB302T 21CSC301T 21CSC302J 21CSC314P E 0 21GNP301L 21PDM301L	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning  T  Semester – V  Course Title Discrete Mathematics Formal Language and Automata Computer Networks Big Data Essentials Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form	3 3 1 0 cotal	0 1 0 0 Cresidours Weel T 1 0 0 1	2 0 0 2 dits P 0 0 2 0 2 0 0 2 0 0 0 0 0 0 0 0 0 0 0	4 4 0 0 23 C 4 3 3 3 1 0 0	Code  21CSS303T  21CSC317J  E  C  21CSP302L  21CSP302L  21CSP303T  21PDM302L  21LEM302T  Course	Course Title  Data Science Software Engineering and Project Management Information Retrieval Techniques Professional Elective – III Professional Elective – IV Open Elective – II Project MOOC Employability Skills and Practices Indian Traditional Knowledge  Semester - VIII Course	He	Hours Wee T 0 0 0 0 Cre	6 6 0 2 2 0 dits	C 2 3 3 3 3 3 3 0 0 0 20
21GNH401T   Behavioral Psychology   2   1   0   3	21CSC202J 21CSC203P 21LEM201T 21PDM201L Course Code 21MAB302T 21CSC301T 21CSC302J 21CSC314P E 0 21GNP301L 21PDM301L 21LEM301T	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning  T  Semester – V  Course Title Discrete Mathematics Formal Language and Automata Computer Networks Big Data Essentials Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form  T  Semester – VII	3 3 1 0 otal	0 1 0 0 Cresidours Weel T 1 0 0 0 Cresidours Veel	2 0 0 2 dits F 0 0 2 2 0 dits	4 4 0 0 23 C 4 3 3 3 1 0 0	Code  21CSS303T  21CSC303J  21CSC317J  E  O  21CSP302L¹  21CSP303T¹  21PDM302L¹  21LEM302T¹  Course Code	Course Title  Data Science Software Engineering and Project Management Information Retrieval Techniques Professional Elective – III Professional Elective – IV Open Elective – II Project MOOC Employability Skills and Practices Indian Traditional Knowledge  Semester - VIII  Course Title	House   Hous	Hours Wee T 0 0 0 0 Cre	6 0 2 2 0 dits	C 2 3 3 3 3 3 3 0 0 0 20 C C
E Professional Elective – V 3 E Professional Elective – V 3 E Professional Elective – VI 3 E Professional Elective – VII 3 E Professional Elective – VII 3 E Professional Elective – VII 3 O Open Elective – III 3 Total Credits 15  **Students have to register either 21CSP401L or 21CSP402L and 21CSP403L both in eighth semester	21CSC202J 21CSC203P 21LEM201T 21PDM201L Course Code 21MAB302T 21CSC301T 21CSC302J 21CSC314P E 0 21GNP301L 21PDM301L 21LEM301T	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning  T  Semester – V  Course Title Discrete Mathematics Formal Language and Automata Computer Networks Big Data Essentials Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form  T  Semester – VII Course	3 3 1 0 otal	O 1 0 0 Cres Veel T 1 0 0 0 Cres Veel Weel Weel Weel Weel Weel T 1 0 0 0 0 Cres Veel T 1 0 0 0 0 Cres Veel T 1 0 0 0 0 Cres Veel T 1 0 0 0 0 0 Cres Veel T 1 0 0 0 0 0 Cres Veel T 1 0 0 0 0 0 0 Cres Veel T 1 0 0 0 0 0 0 0 0 Cres Veel T 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 0 0 2 dits P 0 0 2 2 0 dits	C 4 3 4 3 3 3 1 0 0 0 21	Code  21CSS303T  21CSC303J  21CSC317J  E  O  21CSP302L¹  21CSP303T¹  21PDM302L¹  21LEM302T¹  Course Code  21CSP401L	Course Title  Data Science Software Engineering and Project Management Information Retrieval Techniques Professional Elective – III Professional Elective – IV Open Elective – II Project MOOC Employability Skills and Practices Indian Traditional Knowledge  Semester - VIII Course Title Major Project	Hotal	Hours Weee T 0 0 0 0 0 Cree	6 / k P 0 2 2 2 6 6 0 0 dits	C 2 3 3 3 3 3 3 0 0 0 20 C 15
E Professional Elective – VI 3 E Professional Elective – VII 3 E Professional Elective – VII 3 E Professional Elective – VIII 3 O Open Elective – III 3  *Students have to register either 21CSP401L or 21CSP402L and 21CSP403L both in eighth semester	21CSC202J 21CSC203P 21LEM201T 21PDM201L Course Code 21MAB302T 21CSC302J 21CSC314P E 0 21GNP301L 21PDM301T 21LEM301T	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning  T  Semester – V  Course Title Discrete Mathematics Formal Language and Automata Computer Networks Big Data Essentials Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form  T  Semester – VII Course Title	3 3 1 0 0 cotal	O 1 0 0 Cres Veel T 1 0 0 0 Cres Veel T T T T T T T T T T T T T T T T T T	2 0 0 2 dits P 0 2 0 2 2 0 dits	C 4 3 3 3 1 0 0 0 21	Code  21CSS303T  21CSC303J  21CSC317J  E  O  21CSP302L¹  21CSP302L¹  21CSP302T¹  21PDM302L¹  21LEM302T¹  Course Code  21CSP401L  21CSP402L	Course Title  Data Science Software Engineering and Project Management Information Retrieval Techniques Professional Elective – III Professional Elective – IV Open Elective – II Project MOOC Employability Skills and Practices Indian Traditional Knowledge  Semester - VIII Course Title Major Project Major Project	House   Hous	Hours Wee  T 0 0 0 0 0 Cree	P   30   20	C 2 3 3 3 3 3 3 0 0 0 20 C 15 10
E Professional Elective – VII 3 E Professional Elective – VIII 3 O Open Elective – III 3	21CSC202J 21CSC203P 21LEM201T 21PDM201L Course Code 21MAB302T 21CSC301T 21CSC302J 21CSC314P E 0 21GNP301L 21LEM301T Course Code 21GNP401T	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning  T  Semester – V  Course Title Discrete Mathematics Formal Language and Automata Computer Networks Big Data Essentials Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form  T  Semester – VII Course Title Behavioral Psychology	3 3 1 0 0 cotal	O 1 0 0 Cres Veel T 1 0 0 0 Cres Veel T T T T T T T T T T T T T T T T T T	2 0 0 2 dits P 0 2 0 2 2 0 dits	C 4 3 4 3 3 3 1 1 0 0 21 C C 3	Code  21CSS303T  21CSC303J  21CSC317J  E  O  21CSP302L¹  21CSP302L¹  21CSP302T¹  21PDM302L¹  21LEM302T¹  Course Code  21CSP401L  21CSP402L	Course Title  Data Science Software Engineering and Project Management Information Retrieval Techniques Professional Elective – III Professional Elective – IV Open Elective – II Project MOOC Employability Skills and Practices Indian Traditional Knowledge  Semester - VIII Course Title Major Project Internship#	He   V   L   O   O   O   O	dours Wee T 0 0 0 0 Cre  Dours O O O O O O O O O O O O O O O O O O O	6 0 2 0 dits	C 2 3 3 3 3 3 3 3 0 0 20 C C 15 10 5
E Professional Elective – VII 3 21CSP403L both in eighth semester  E Professional Elective – VIII 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	21CSC202J 21CSC203P 21LEM201T 21PDM201L Course Code 21MAB302T 21CSC301T 21CSC302J 21CSC314P E O 21GNP301L 21LEM301T Course Code 21GNH401T E	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning  T  Semester – V  Course Title Discrete Mathematics Formal Language and Automata Computer Networks Big Data Essentials Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form  T  Semester – VII Course Title Behavioral Psychology Professional Elective – V	3 3 1 0 0 cotal	O 1 0 0 Cres Veel T 1 0 0 0 Cres Veel T T T T T T T T T T T T T T T T T T	2 0 0 2 dits P 0 2 0 2 2 0 dits	C 4 3 4 3 3 3 1 1 0 0 21 C C 3 3 3	Code  21CSS303T  21CSC303J  21CSC317J  E  O  21CSP302L¹  21CSP302L¹  21CSP302T¹  21PDM302L¹  21LEM302T¹  Course Code  21CSP401L  21CSP402L	Course Title  Data Science Software Engineering and Project Management Information Retrieval Techniques Professional Elective – III Professional Elective – IV Open Elective – II Project MOOC Employability Skills and Practices Indian Traditional Knowledge  Semester - VIII Course Title Major Project Internship#	He   V   L   O   O   O   O	dours Wee T 0 0 0 0 Cre  Dours O O O O O O O O O O O O O O O O O O O	6 0 2 0 dits	C 2 3 3 3 3 3 3 3 0 0 20 C C 15 10 5
E         Professional Elective – VIII         3           O         Open Elective – III         3	21CSC202J 21CSC203P 21LEM201T 21PDM201L Course Code 21MAB302T 21CSC301T 21CSC302J 21CSC314P E O 21GNP301L 21LEM301T Course Code 21GNH401T E	Operating Systems Advanced Programming Practice Professional Ethics Verbal Reasoning  T  Semester – V  Course Title Discrete Mathematics Formal Language and Automata Computer Networks Big Data Essentials Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form  T  Semester – VII Course Title Behavioral Psychology Professional Elective – V Professional Elective – V Professional Elective – VI	3 3 1 0 0 cotal	O 1 0 0 Cres Veel T 1 0 0 0 Cres Veel T T T T T T T T T T T T T T T T T T	2 0 0 2 dits P 0 2 0 2 2 0 dits	4 4 0 0 23 C 4 3 3 3 1 0 0 21 C C 3 3 3 3 3 3 3 3	Code  21CSS303T  21CSC303J  21CSC317J  E  C  21CSP302L  21CSP303L  21CSP303T  21PDM302L  21LEM302T  Course Code  21CSP401L  21CSP402L  21CSP403L	Course Title  Data Science Software Engineering and Project Management Information Retrieval Techniques Professional Elective – III Professional Elective – IV Open Elective – II Project MOOC Employability Skills and Practices Indian Traditional Knowledge  Semester - VIII  Course Title Major Project Internship#	Horacon   Horacon   Control   Horacon   Horacon   Horacon   Control   Horacon   Hora	Hours Wee T 0 0 0 0 0 Cree	P   0   2   2   0   0   dits   P   30   20   10   dits	C 2 3 3 3 3 3 3 3 0 0 20 C C 15 10 5
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