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

51. Integrated M.Tech. in Computer Science and Engineering with Specialization in Cyber Security & Digital Forensics

51. (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 Identify and address the Knowledge, Professional Skills, Professional Aptitude in the field of Cyber security

51. (b) Program Educational Objectives (PEO)

PEO – 1	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 be able to obtain Job orientations / proficiencies / skills in the field of cyber security and digital forensics.

51. (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	Table Age	The second	and the second	1
PEO - 2			2		-
PEO - 3		3	3		
PEO - 4		(中国) (中国)	N Latin	2	3
PEO - 5		100	No. of Contract	3	

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

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

Ì	1	٦			Pro	gram Ou	tcomes (PO)	- 8		7	المستحر	Prog	gram <mark>Spe</mark>	cific
	1	2	3	4	5	6	7	8	9	10	11	12	Outo	comes (P	SO)
	Engineering Knowledge	Problem Analysis	Design/development of solutions	Conduct investigations of complex problems	Modern Tool Usage	The engineer and society	Environment & Sustainability	Ethics	Individual & Team Work	Communication	Project Mgt. & Finance	Life Long Learning	PSO-1	PSO-2	PSO-3
PEO - 1	3			1	1	2	ı	3	2	3			-	-	2
PEO - 2	-	2	2	7	3	-	3	2	-10		-		2	-	-
PEO - 3	-	3	3	2	-	-			-	2	-	3	-	2	-
PEO - 4	-	2	3	-	1	3	2	1	2	-	2	2	-	2	-
PEO - 5	-	-	-	-	1	3	-	-	3	3	3	3	-	-	3

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

PSO - Program Specific Outcomes (PSO)

1 PSU - 1	To understand, analyze, 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	To identify and utilize cyber security principles to create secure infrastructure

51. (e) Program Structure: Integrated M.Tech. in Computer Science and Engineering with Specialization in Cyber Security & Digital Forensics

	Humanities & Social Sciences						Basic Science Courses (B)				
	including Management Courses (H)					Course	Course	Н	lour	s/	
Ca		Н	ours	<i> </i>		Course	Course	\	Nee	k	
Course	Course	٧	Veel	k		Code	Title	L	Τ	Р	С
Code	Title	Т	Т	Р	С		Semiconductor Physics and	_			Ť
211 EH101T	Communicative English	2	1	0	3		Computational Methods	3	1	2	5
			-	U	3			2	1	2	5
21LEH102T						21CYB101J		3	<u> </u>	_	-
21LEH103T							Calculus and Linear Algebra	3	1	0	4
21LEH104T							Advanced Calculus and Complex Analysis		1	0	4
21LEH105T	Japanese	2	1	0	3		Numerical Methods and Analysis	3	1	0	4
21LEH106T							Discrete Mathematics	3	1	0	4
21LEH107T	Spanish					21MAB204T	Probability and Queuing Theory	3	1	0	4
21LEH108T	Russian					21BTB102T	Introduction to Computational Biology	2	0	0	2
	Philosophy of Engineering	1	0	2	2			tal	Cre	dits	32
	Social Engineering	2	0	0	2			-	-		
	Behavioral Psychology	2	1	0	3		Professional Core Courses (C)				
21011114011		otal	•	-		_	0	Н	ours	s /	
		Jlai	CIE	มแจ	13	Course	Course	١	Nee	k	
	Engineering Science Courses (S)					Code	Title	L	Т	Р	С
0.00		Н	ours	/		0.1000.101	Object Oriented Design and				
Course	Course		Veek			21CSC101T	Programming	2	1	0	3
Code	Title	ı	Т	Р	С	21CSC201J		3	0	2	4
21FFS101T	Electrical and Electronics Engineering	3	1	0	4	21CSC2013		3	0	2	4
	Basic Civil and Mechanical Workshop	0	0	4	2				0	_	_
		0	0	4		21CSC203P		3	1	0	4
	Engineering Graphics and Design				2	21CSC204J		3	0	2	4
	Programming for Problem Solving	3	0	2	4	21CSC205P		3	1	0	4
	Computer Organization and Architecture	3	1	0	4	21CSC206T		2	1	0	3
	Design Thinking and Methodology	1	2	0	3	21CSC301T	Formal Language and Automata	3	0	0	3
21CSS303T	Data Science	2	0	0	2	21CSC302J		3	0	2	4
	To	otal (Cred	dits	21		Coffeens Engineering and Drainet				
	1-12 To 12 T		1		1	21CSC303J	Management	2	0	2	3
				_	_	21CSC310J		2	0	2	3
	Non Credit Courses (M)					21CSC308T		3	0	0	3
Course	Course	H	ours	s /			Security Service Management	3	1	0	4
	Title	\	Nee	k							<u> </u>
Code	ritte	L	Τ	Р	С	21CSC504J		3	0	2	4
21PDM101L	Professional Skills and Practices	0	0	2		21IPC501J ²	ů,	2	1	2	4
21PDM102L		0	0	2			To	tal	Cre	dits	54
	Verbal Reasoning	0	0				Open Elective Courses (O)		_		
	Critical and Creative Thinking Skills	0	0	2	0		(Any 4 courses)				
	Analytical and Logical Thinking Skills			2 2			(Ally 4 courses)	ш	lours	- 1	
		0	0	2		Course	Course				
	Employability Skills and Practices	0	0	2		Code	Title	_\	Nee		
21CYM101T		1	0	0	0			L	Τ	Р	С
	Constitution of India	1	0	0		21CSO351T	Web Programming	2	1	0	3
21LEM102T 1	Universal Human Values – Introduction	1	0	0	0	21CSO352T	Python Programming		1	0	3
21LEM201T 1	Professional Ethics	1	0	0	0	21CSO353T	Mobile Application Development	2	1	0	3
	Universal Human Values-II:					21CSO354T	Data Analytics	2	1	0	3
21LEM202T 1		2	1	0	3		Network Security	2	1	0	3
Z I Z Z MIZ OZ I	Human Conduct	-	<i>'</i>				Fundamentals of Information System		Ė		
211 FM201T 1	Indian Art Form	1	0	0	0		Security	2	1	0	3
		1	0	0	0		Security Policy Implementation	2	1	0	3
	Indian Traditional Knowledge	I	U	U	U	210303001		_	Crr	_	_
	Physical and Mental Health using Yoga						I C	tai	<u>ure</u>	uits	12
	National Service Scheme	0	0	2	0	D 1 (11)	10 1 11 11 1 1 1 1 1 1 1				
	National Cadet Corps			_		Project Wo	rk, Seminar, Internship in Industry / High	er 1	ech	nic	ai
21GNM104L	National Sports Organization						Institutions (P)				
	To	otal	Cred	dits	03						

Course Code	Course Title		lour: Wee		
Code	riue	L	Τ	Р	С
21GNP301L ¹	Community Connect	0	0	2	1
21CSP302L 1	Project	0	0	6	3
21CSP303T 1	MOOC	3	0	0	3
21CSP401L	Major Project	0	0	30	15
21CSP402L	Major Project	0	0	20	10
21CSP403L	Internship#	0	0	10	5
21CSP501L	Specialization Project	0	0	40	20
21CSP502L	Specialization Project	0	0	30	15
21CSP503L	Domain Internship	0	0	10	5
		Γota	Cre	edits	39

						l _i					_
	Professional Elective Courses (E)						Professional Elective Courses (E)			
	(Any 13 courses)										
Course	Course		ours			Course	Course		ours		
Code	Title	\	<u>Nee</u>			Code	Title	V	Vee		
0000	Tide	L	Τ	Р	С	Oouc	Tido	L	Τ	Р	С
21CSE281T	Cryptography and Network Security	2	1	0	3	21CSE488T	Hacker Mind: Profiling the IT Criminal	2	1	0	3
21CSE229J	Check Point System Administration	2	0	2	3	21CSE489T	Mobile and Wireless Security	2	1	0	3
21CSE282T	Information Security	3	0	0	3	21CSE490J	Windows and Linux Internals	2	0	2	3
21CSE283T	Cyber Law	2	1	0	3	21CSE491T	Cyber Crime and Digital Forensics	2	1	0	3
21CSE381T	Forensics And Incident Response	2	1	0	3	21CSE492T	Cyber Crimes and Cyber Security	2	1	0	3
21CSE382T	Security Management	2	1	0	3	21CSE531T	Cyber Security Operations	2	1	0	3
21CSE383T	Security Governance, Risk and	2	1	0	3	21CSE532T	Network Management and Protocols	2	1	0	3
	compliance		1	U	J	21CSE533T	Firewalls and Access Controls	2	1	0	3
	Security Audit and Risk Assessment	2	0	2	3	21CSE534T	Network Programming and	2	1	0	3
21CSE385J	Advanced Malware Analysis	2	0	2	3	2103L3341	Management	2	'	U	J
21CSE386J	Penetration Testing and Vulnerability	2	0	2	3	771 8-5351	Network Intrusions and Computer	2	1	0	3
	Assessment		Ů		Ü		Forensics			U	_
	Hacker Techniques, Tools, and Incident	2	n	2	3	21CSE536T	Mobile Forensics	2	1	0	3
210020010	Handling	_	U		U	21CSE537T	Digital Forensics	2	1	0	3
21CSE399J	Comprehensive Linux for All	2	0	2	3	21CSE538T	Security Scripting and Analysis	2	1	0	3
	Database Security	2	1	0	3	21CSE539T	Principles of Secure Coding Principles	2	1	0	3
	Operation System Security	2	1	0	3	21CSE540T	Android Security and Design Internals	2	1	0	3
21CSE487T	Cyberwarfare	2	1	0	3			Total	Cre	dits	39

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51. (f) Programme Articulation: Integrated M.Tech. in Computer Science and Engineering with Specialization in Cyber Security & Digital Forensics

- F	ecianzation in Cyber Security &	-					ım 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
21CSS101J	Programming for Problem Solving	2	3	_ ∞ -	- -	2	F	-	<u>ш</u>	<u>-</u>	<u> </u>	-	2	-	3	-
	Data Science	-	-	-	-	-	-					-	-	1	1	-
21CSS201T	Computer Organization and Architecture	3	2	-	-	1	-	-	-	+_	-	-	-	1	2	1
	Data Structures and Algorithms	2	3	3	1		-	-	į	٠,	i	-	-	1	1	2
	Object Oriented Design and Programming	-	2	2	1 - [2	2	-	-		- 6	-	3	-	2	2
	Design and Analysis of Algorithms	2	1	_2	1	-5-4	1-	4	4	-	3	-	3	3	1	-
21CSC202J	Operating Systems	3	3	3	2	-		1	4		- 1	-	3	2	-	-
21CSC303J	Software Engineering and Project Management	-	3	2	-	1	-	-	1,	2	-	2		3	-	1
	Advanced Programming Practice	3	2	2	1	2	-	-		1	4	-	1-	2	-	-
	Formal Language and Automata	2	2	2	-	-	-	-	-		-	-	-	78	3	-
	Computer Networks	3	_	-	2	3	-	-	-	<u> </u>			-	1	-	-
	Database Management Systems	3	2	2	77-	- 4		-	-	-	- 1	7	-	2	1	-
	Artificial Intelligence Malware Analysis	1	2	3	- 4	-	-	2	-	-	- 3	Ţ-	3	1	2	3
	Security Risk Management Principles	+	3			3		2		_	3	3	3			3
	Android Malware Analysis		J			. J	-	2		٠.	3	J				3
	Security Risk Management Principles		3	- ##							3		2			3
	Cryptography and Network Security	2	2	16.	135				7	100				-		3
	Information Security	- 2		2	177	₩			2				-	4		3
21CSE283T		774				2	180	2	Ŧ					•		3
	Check Point System Administration			2	4.	2		-7-5	-							3
	Forensics And Incident Response	Til	Fig.	2		100	-		2	- 4						3
21CSE382T	Security Management	-	4	2		2	_			7						3
	Security Governance, Risk and compliance	2	2		2											3
	Security Audit and Risk Assessment		2	2					2							3
2 <mark>1CS</mark> E385J	Advanced Malware Analysis		2	2		2						-				3
21CSE386J	Penetration Testing and Vulnerability Assessment		2	2		2	1				/	*	7		j	3
210323013	Hacker Techniques, Tools, and Incident Handling	1965	2	\$ ()		2					م د د	7			*.	3
21CSE399J	Comprehensive Linux for All	3		2	2	3	4.				. /					
	Database Security -	1.70	- 2			2			2		2	77				3
	Operation System Security	2		3	- 4	3				15						3
	Cyberwarfare			2	11		-		2	IJ						3
	Hacker Mind: Profiling the IT Criminal	_		2		2		-11			يالي	3		F		3
	Mobile and Wireless Security	2		3		3			2				- 4			3
	Windows and Linux Internals Cyber Crime and Digital Forensics	2		3		3			2				F			3
	Cyber Crime and Digital Forensics Cyber Crimes and Cyber Security		2	2		J			2							3
	Cyber Security Operations		2					2			3		3			3
	Network Management and Protocols		3			3		4			0	3	J			3
	Firewalls and Access Controls		,		n de d	,		2			3	Ť				3
	Network Programming and Management		3					_					2			3
	Network Intrusions and Computer Forensics	2	2													3
	Mobile Forensics			2					2							3
21CSE537T	Digital Forensics					2		2								3
	Security Scripting and Analysis			2					2							3
	Principles of Secure Coding Principles			2		2										3
	Android Security and Design Internals	2	2	_	2			_			_	_	_		_	3
21CSP302L		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Major Project	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
21CSP402L		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
21CSP501L	Specialization Project	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Program Average	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

51. (g) Implementation Plan: Integrated M.Tech. in Computer Science and Engineering with Specialization in Cyber Security & Digital Forensics

1	0 , ,				- 1		^ ' ''				
	Semester – I			. /			Semester - II		1	. /	
Course	Course		ours			Course	Course		lours		
Code	Title	. V	Veel			Code	Title	٠ ١	Nee T		
041514045		L	T	P	С	041 5114007		L	T	Р	С
21LEH101T		2	1	0	3	21LEH102T	Chinese				
21MAB101T		3	1	0	4	21LEH103T	French				
21PYB102J	Semiconductor Physics and	3	1	2	5	21LEH104T	German			_	
	Computational Methods		_		-	21LEH105T	Japanese	2	1	0	3
21MES102L	0 0 1	0	0	4	2	21LEH106T	Korean				
21EES101T		3	1	0	4	21LEH107T	Spanish				
21CSS101J		3	0	2	4	21LEH108T	Russian		<u> </u>		_
21CYM101T		1	0	0	0	21GNH101J	Philosophy of Engineering	1	0	2	2
21PDM101L		0	0	2	0	21MAB102T	Advanced Calculus and Complex	3	1	0	4
21LEM101T		1	0	0	0		Analysis				<u> </u>
	T	otal	Cre	dits	22	21CYB101J	Chemistry	3	1	2	5
	Semester – III					21BTB102T	Introduction to Computational Biology	2	0	0	2
	Semester – III	П	lours	. /		21CSC101T	Object Oriented Design and	2	1	0	3
Course	Course		Nee				Programming				
Code	Title	-	T			21MES101L ¹	Basic Civil and Mechanical Workshop	0	0	4	2
244402067	Numerical Matheda and Analysis	L	1	Р	C 4	21PDM102L ¹		0	0	2	0
21MAB206T		3		0	-		Physical and Mental Health using Yoga				
21CSC201J		3	0	2	4		National Service Scheme	0	0	2	0
21CSC202J		3	0	2	4		National Cadet Corps	U	U	_	U
21CSC203P		3	1	0	4	21GNM104L ¹	National Sports Organization				
21CSS201T	Computer Organization and	3	1	0	4		То	tal	Cre	dits	21
24000204.0	Architecture	1	2	0	2		Semester – IV				
21DCS201 P		1	2	0	3			Н	lours	3 /	
21LEM201T		1	0	2	0	Course	Course		Nee		
21PDM201L		0	_		0	Code	Title	Τ.	T	Р	С
		ntai	I.ro								
		otai	OIC	uits	23	21MAR204T	Probability and Queueing Theory	3	1		4
		Otai	010	uits	23		Probability and Queueing Theory Design and Analysis of Algorithms	3	1	0	4
	Semester – V	otai		uits	23	21CSC204J	Design and Analysis of Algorithms	3	0	0	4 4 4
Course	Semester – V	Н	lours	s /	23	21CSC204J 21CSC205P 1	Design and Analysis of Algorithms Database Management Systems	3	0	0 2 0	4
Course	Semester – V Course	Н	lours Wee	s / k		21CSC204J 21CSC205P ¹ 21CSC206T	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence	3	0	0	4 4 3
Course Code	Semester – V	H \ L	lours Wee	s / k	С	21CSC204J 21CSC205P 1 21CSC206T E	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I	3 2	0 1 1	0 2 0 0	4 4 3 3
Code 21MAB302T	Semester – V Course Title Discrete Mathematics	H \	lours Wee	s / k	C 4	21CSC204J 21CSC205P 1 21CSC206T E 21PDH209T 1	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering	3 3 2 2 2	0 1 1 1 0	0 2 0 0	4 4 3 3 2
Code 21MAB302T 21CSC301T	Semester – V Course Title	H \ \ L \ 3 \ 3	lours Wee	s / k	С	21CSC204J 21CSC205P 1 21CSC206T E	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering Critical and Creative Thinking Skills	3 2	0 1 1	0 2 0 0	4 4 3 3
Code 21MAB302T 21CSC301T 21CSC302J	Semester – V Course Title Discrete Mathematics Formal Language and Automata Computer Networks	H \\L 3 3 3 3	Vee	k P 0 0 2	C 4 3 4	21CSC204J 21CSC205P ¹ 21CSC206T E 21PDH209T ¹ 21PDM202L ¹	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering Critical and Creative Thinking Skills Universal Human Values-II:	3 3 2 2 0	0 1 1 1 0 0 0	0 2 0 0 0	4 4 3 3 2 0
Code 21MAB302T 21CSC301T 21CSC302J	Semester – V Course Title Discrete Mathematics Formal Language and Automata	H \ \ L \ 3 \ 3	Vee	s / k P 0	C 4 3	21CSC204J 21CSC205P 1 21CSC206T E 21PDH209T 1	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering Critical and Creative Thinking Skills Universal Human Values-II: Understanding Harmony and Ethical	3 3 2 2 2	0 1 1 1 0	0 2 0 0	4 4 3 3 2
Code 21MAB302T 21CSC301T 21CSC302J 21CSC308T	Semester – V Course Title Discrete Mathematics Formal Language and Automata Computer Networks	H \\L 3 3 3 3	Vee	k P 0 0 2	C 4 3 4	21CSC204J 21CSC205P ¹ 21CSC206T E 21PDH209T ¹ 21PDM202L ¹	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering Critical and Creative Thinking Skills Universal Human Values-II: Understanding Harmony and Ethical Human Conduct	3 3 2 2 0 2	0 1 1 1 0 0	0 2 0 0 0 2 2	4 4 3 3 2 0
Code 21MAB302T 21CSC301T 21CSC302J 21CSC308T E 0	Semester – V Course Title Discrete Mathematics Formal Language and Automata Computer Networks Security Risk Management Principles Professional Elective – II Open Elective – I	H \ \ \ L \ 3 \ 3 \ 3 \ 3 \ 3	Vee	S / k P 0 0 0 2 0	C 4 3 4 3	21CSC204J 21CSC205P ¹ 21CSC206T E 21PDH209T ¹ 21PDM202L ¹	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering Critical and Creative Thinking Skills Universal Human Values-II: Understanding Harmony and Ethical Human Conduct	3 3 2 2 0 2	0 1 1 1 0 0 0	0 2 0 0 0 2 2	4 4 3 3 2 0
Code 21MAB302T 21CSC301T 21CSC302J 21CSC308T E 0	Semester – V Course Title Discrete Mathematics Formal Language and Automata Computer Networks Security Risk Management Principles Professional Elective – II	H \ \ \ L \ 3 \ 3 \ 3 \ 3 \ 0 \ 0	Vee T 1 0 0 0 0 0	S / k P 0 0 0 2 0 0 2 2 2 2 2 2 2 2 2 2 2 2 2	C 4 3 4 3 3 3	21CSC204J 21CSC205P ¹ 21CSC206T E 21PDH209T ¹ 21PDM202L ¹	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering Critical and Creative Thinking Skills Universal Human Values-II: Understanding Harmony and Ethical Human Conduct	3 3 2 2 0 2	0 1 1 0 0	0 2 0 0 0 2 0	4 4 3 3 2 0
Code 21MAB302T 21CSC301T 21CSC302J 21CSC308T E 0 21GNP301L 21PDM301L 1	Semester – V Course Title Discrete Mathematics Formal Language and Automata Computer Networks Security Risk Management Principles Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills	H \ \ L \ 3 \ 3 \ 3 \ 3 \ 0 \ 0 \ 0 \ 0	Nee T 1 0 0 0 0 0 0 0 0 0	S / k P 0 0 2 0 0 2 2 2 2 2	C 4 3 4 3 3 3 1 1 0	21CSC204J 21CSC205P 1 21CSC206T E 21PDH209T 1 21PDM202L 1 21LEM202T 1	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering Critical and Creative Thinking Skills Universal Human Values-II: Understanding Harmony and Ethical Human Conduct To	3 3 2 2 0 2 otal	0 1 1 0 0 1	0 2 0 0 0 2 0 dits	4 4 3 3 2 0
Code 21MAB302T 21CSC301T 21CSC302J 21CSC308T E 0 21GNP301L 21PDM301L 1	Semester – V Course Title Discrete Mathematics Formal Language and Automata Computer Networks Security Risk Management Principles Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills	H \ \ L \ 3 \ 3 \ 3 \ 3 \ 0 \ 0 \ 0 \ 0	Nee T 1 0 0 0 0 0 0 0 0 0	S / k P 0 0 2 0 0 2 2 2 2 2	C 4 3 4 3 3 3 1 1 0	21CSC204J 21CSC205P 1 21CSC206T E 21PDH209T 1 21PDM202L 1 21LEM202T 1	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering Critical and Creative Thinking Skills Universal Human Values-II: Understanding Harmony and Ethical Human Conduct To Semester – VI Course	3 3 2 2 0 2 otal	0 1 1 0 0 1 Cree	0 2 0 0 2 0 dits	3 3 2 0 3 2 2
Code 21MAB302T 21CSC301T 21CSC302J 21CSC308T E 0 21GNP301L 21PDM301L 1	Semester – V Course Title Discrete Mathematics Formal Language and Automata Computer Networks Security Risk Management Principles Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills	H \ \ L \ 3 \ 3 \ 3 \ 3 \ 0 \ 0 \ 0 \ 0	Nee T 1 0 0 0 0 0 0 0 0 0	S / k P 0 0 2 0 0 2 2 2 2 2	C 4 3 4 3 3 3 1 1 0	21CSC204J 21CSC205P 1 21CSC206T E 21PDH209T 1 21PDM202L 1 21LEM202T 1	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering Critical and Creative Thinking Skills Universal Human Values-II: Understanding Harmony and Ethical Human Conduct To Semester – VI Course Title	3 3 2 0 2 otal	0 1 1 0 0 1 Cree	0 2 0 0 2 0 dits	4 4 3 3 2 0 3 2 C
Code 21MAB302T 21CSC301T 21CSC302J 21CSC308T E 0 21GNP301L 21PDM301L 1	Semester – V Course Title Discrete Mathematics Formal Language and Automata Computer Networks Security Risk Management Principles Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills	H \ \ L \ 3 \ 3 \ 3 \ 3 \ 0 \ 0 \ 0 \ 0	Nee T 1 0 0 0 0 0 0 0 0 0	S / k P 0 0 2 0 0 2 2 2 2 2	C 4 3 4 3 3 3 1	21CSC204J 21CSC205P 1 21CSC206T E 21PDH209T 1 21PDM202L 1 21LEM202T 1	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering Critical and Creative Thinking Skills Universal Human Values-II: Understanding Harmony and Ethical Human Conduct To Semester – VI Course Title Data Science	3 3 2 2 0 2 otal	0 1 1 0 0 1 Cree	0 2 0 0 2 0 dits	4 4 3 3 2 0 3 2 2 2
Code 21MAB302T 21CSC301T 21CSC302J 21CSC308T E 0 21GNP301L 21PDM301L 1	Semester – V Course Title Discrete Mathematics Formal Language and Automata Computer Networks Security Risk Management Principles Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form	H \ \ L \ 3 \ 3 \ 3 \ 3 \ 0 \ 0 \ 0 \ 0	Nee T 1 0 0 0 0 0 0 0 0 0	S / k P 0 0 2 0 0 2 2 2 2 2	C 4 3 4 3 3 3 1 1 0	21CSC204J 21CSC205P1 21CSC206T E 21PDH209T1 21PDM202L1 21LEM202T1 Course Code 21CSS303T	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering Critical and Creative Thinking Skills Universal Human Values-II: Understanding Harmony and Ethical Human Conduct To Semester – VI Course Title Data Science Software Engineering and Project	3 3 2 0 2 0 tal	0 1 1 0 0 0 1 Cree	0 0 0 0 2 0 dits	3 3 2 0 3 2 0 C 2
Code 21MAB302T 21CSC301T 21CSC302J 21CSC308T E 0 21GNP301L 21PDM301L 1	Semester – V Course Title Discrete Mathematics Formal Language and Automata Computer Networks Security Risk Management Principles Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills	H \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Vee T 1 0 0 0 0 0 Cree	8 / k P 0 0 2 0 0 2 2 0 dits	C 4 3 4 3 3 3 1 1 0	21CSC204J 21CSC205P 1 21CSC206T E 21PDH209T 1 21PDM202L 1 21LEM202T 1 Course Code 21CSS303T 21CSC303J	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering Critical and Creative Thinking Skills Universal Human Values-II: Understanding Harmony and Ethical Human Conduct To Semester – VI Course Title Data Science Software Engineering and Project Management	3 3 2 0 2 otal	0 1 1 0 0 0 1 Cree	0 0 0 2 0 0 2 0 dits	3 3 2 0 3 2 2 3
Code 21MAB302T 21CSC301T 21CSC302J 21CSC308T E O 21GNP301L 21PDM301L 21LEM301T Course	Semester – V Course Title Discrete Mathematics Formal Language and Automata Computer Networks Security Risk Management Principles Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form	H \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	lours Wee T 1 0 0 0 Cre	8 / k P 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C 4 3 4 3 3 3 1 1 0	21CSC204J 21CSC205P 1 21CSC206T E 21PDH209T 1 21PDM202L 1 21LEM202T 1 Course Code 21CSS303T 21CSC310J	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering Critical and Creative Thinking Skills Universal Human Values-II: Understanding Harmony and Ethical Human Conduct To Semester – VI Course Title Data Science Software Engineering and Project Management Malware Analysis	3 3 2 0 2 0 tal	0 1 1 0 0 0 1 Cree	0 0 0 0 2 0 dits	3 3 2 0 3 23 C 23
Code 21MAB302T 21CSC301T 21CSC302J 21CSC308T E O 21GNP301L 21PDM301L 21LEM301T	Semester – V Course Title Discrete Mathematics Formal Language and Automata Computer Networks Security Risk Management Principles Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form T Semester - VII	H \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	lours Wee	8 / k P 0 0 0 2 0 0 dits	C 4 3 4 3 3 3 1 0 0 0 21	21CSC204J 21CSC205P 1 21CSC206T E 21PDH209T 1 21PDM202L 1 21LEM202T 1 Course Code 21CSS303T 21CSC310J E	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering Critical and Creative Thinking Skills Universal Human Values-II: Understanding Harmony and Ethical Human Conduct To Semester – VI Course Title Data Science Software Engineering and Project Management Malware Analysis Professional Elective – III	3 3 2 0 2 otal	0 1 1 0 0 0 1 Cree	0 0 0 2 0 0 2 0 dits	3 3 2 0 3 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3
Code 21MAB302T 21CSC3001T 21CSC302J 21CSC308T E 0 21GNP301L 1 21PDM301L 1 21LEM301T 1 Course Code	Semester – V Course Title Discrete Mathematics Formal Language and Automata Computer Networks Security Risk Management Principles Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form T Semester - VII Course Title	H \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	lours Wee T 1 0 0 0 Cree	8 / k P 0 0 2 0 0 2 2 2 0 dits	C 4 3 4 3 3 3 1 0 0 0 21	21CSC204J 21CSC205P 1 21CSC206T E 21PDH209T 1 21PDM202L 1 21LEM202T 1 Course Code 21CSS303T 21CSC310J E	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering Critical and Creative Thinking Skills Universal Human Values-II: Understanding Harmony and Ethical Human Conduct To Semester – VI Course Title Data Science Software Engineering and Project Management Malware Analysis Professional Elective – III Professional Elective – IV	3 3 2 0 2 otal	0 1 1 0 0 0 1 Cree	0 0 0 2 0 0 2 0 dits	3 3 2 0 3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3
Code 21MAB302T 21CSC301T 21CSC302J 21CSC308T E O 21GNP301L 1 21LEM301T 1 Course Code 21GNH401T	Semester – V Course Title Discrete Mathematics Formal Language and Automata Computer Networks Security Risk Management Principles Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form T Semester - VII Course Title Behavioral Psychology	H \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	lours Wee	8 / k P 0 0 0 2 0 0 dits	C 4 3 4 3 3 3 1 0 0 0 21	21CSC204J 21CSC205P 1 21CSC206T E 21PDH209T 1 21PDM202L 1 21LEM202T 1 Course Code 21CSS303T 21CSC310J E E	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering Critical and Creative Thinking Skills Universal Human Values-II: Understanding Harmony and Ethical Human Conduct To Semester – VI Course Title Data Science Software Engineering and Project Management Malware Analysis Professional Elective – III Professional Elective – IV Open Elective – II	3 3 2 0 2 otal	0 1 1 0 0 0 1 Cree	0 0 0 2 0 0 2 0 dits	3 3 2 0 3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3
Code 21MAB302T 21CSC301T 21CSC302J 21CSC308T E O 21GNP301L 1 21LEM301T 1 Course Code 21GNH401T E	Semester – V Course Title Discrete Mathematics Formal Language and Automata Computer Networks Security Risk Management Principles 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	H \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	lours Wee T 1 0 0 0 Cree	8 / k P 0 0 2 0 0 2 2 2 0 dits	C C 4 3 3 4 4 3 3 3 1 1 0 0 0 21	21CSC204J 21CSC205P1 21CSC206T E 21PDH209T1 21PDM202L1 21LEM202T1 Course Code 21CSS303T 21CSC310J E E O 21CSP302L1	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering Critical and Creative Thinking Skills Universal Human Values-II: Understanding Harmony and Ethical Human Conduct To Semester – VI Course Title Data Science Software Engineering and Project Management Malware Analysis Professional Elective – III Professional Elective – IV Open Elective – III Project	3 3 2 0 2 0 2 0 1 1 1 2 2 2 2	0 1 1 0 0 0 1 1 Cree	0 0 0 2 0 0 2 0 dits	3 3 2 0 3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3
Code 21MAB302T 21CSC3001T 21CSC302J 21CSC308T E 0 21GNP301L 1 21PDM301L 1 21LEM301T 1 Course Code 21GNH401T E E	Semester – V Course Title Discrete Mathematics Formal Language and Automata Computer Networks Security Risk Management Principles 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 – VI	H \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	lours Wee T 1 0 0 0 Cree	8 / k P 0 0 2 0 0 2 2 2 0 dits	C C 4 3 3 3 3 1 0 0 0 21	21CSC204J 21CSC205P 1 21CSC206T E 21PDH209T 1 21PDM202L 1 21LEM202T 1 Course Code 21CSS303T 21CSC310J E E	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering Critical and Creative Thinking Skills Universal Human Values-II: Understanding Harmony and Ethical Human Conduct To Semester – VI Course Title Data Science Software Engineering and Project Management Malware Analysis Professional Elective – III Professional Elective – IV Open Elective – III Project	3 3 2 0 2 2 0 1 1 1 2 2 2 2 2 2	0 1 1 0 0 0 1 1 Cree	0 2 0 0 2 0 2 0 dits	3 3 2 0 3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3
Code 21MAB302T 21CSC3001T 21CSC302J 21CSC308T E	Semester – V Course Title Discrete Mathematics Formal Language and Automata Computer Networks Security Risk Management Principles 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 – VI Professional Elective – VII	H \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	lours Wee T 1 0 0 0 Cree	8 / k P 0 0 2 0 0 2 2 2 0 dits	C 4 3 3 3 3 1 0 0 0 21	21CSC204J 21CSC205P1 21CSC206T E 21PDH209T1 21PDM202L1 21LEM202T1 Course Code 21CSS303T 21CSC310J E E O 21CSP302L1	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering Critical and Creative Thinking Skills Universal Human Values-II: Understanding Harmony and Ethical Human Conduct To Semester – VI Course Title Data Science Software Engineering and Project Management Malware Analysis Professional Elective – III Professional Elective – IV Open Elective – III Project	3 3 2 0 2 0 2 0 1 1 1 2 2 2 2	0 1 1 0 0 0 1 1 Cree	0 2 0 0 2 0 dits	3 3 2 0 3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3
Code 21MAB302T 21CSC3001T 21CSC302J 21CSC308T E O 21GNP301L 1 21PDM301L 1 21LEM301T 1 Course Code 21GNH401T E E E E	Semester – V Course Title Discrete Mathematics Formal Language and Automata Computer Networks Security Risk Management Principles 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 – VI Professional Elective – VIII Professional Elective – VIII	H \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	lours Wee T 1 0 0 0 Cree	8 / k P 0 0 2 0 0 2 2 2 0 dits	C C 4 3 3 3 1 0 0 0 21 C C 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	21CSC204J 21CSC205P1 21CSC206T E 21PDH209T1 21PDM202L1 21LEM202T1 Course Code 21CSS303T 21CSC310J E E O 21CSP302L1 21CSP303T1	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering Critical and Creative Thinking Skills Universal Human Values-II: Understanding Harmony and Ethical Human Conduct To Semester – VI Course Title Data Science Software Engineering and Project Management Malware Analysis Professional Elective – III Professional Elective – IV Open Elective – II Project MOOC	3 3 2 0 2 0 2 0 1 1 1 2 2 2 0 3	0 1 1 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0	0 2 0 0 2 0 dits S/k P 0 2 2 2	3 3 2 0 3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3
Code 21MAB302T 21CSC3001T 21CSC302J 21CSC308T E O 21GNP301L 1 21PDM301L 1 21LEM301T 1 Course Code 21GNH401T E E E E	Semester - V Course Title Discrete Mathematics Formal Language and Automata Computer Networks Security Risk Management Principles 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 - VI Professional Elective - VIII Professional Elective - VIII Open Elective - III	H \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	lours Wee T 1 0 0 0 0 0 Cree	8 / k P 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	21CSC204J 21CSC205P1 21CSC206T E 21PDH209T1 21PDM202L1 21LEM202T1 Course Code 21CSS303T 21CSC310J E COURSE CODE 21CSP302L1 21CSP302L1 21CSP303T1 21PDM302L1	Design and Analysis of Algorithms Database Management Systems Artificial Intelligence Professional Elective – I Social Engineering Critical and Creative Thinking Skills Universal Human Values-II: Understanding Harmony and Ethical Human Conduct To Semester – VI Course Title Data Science Software Engineering and Project Management Malware Analysis Professional Elective – III Professional Elective – IV Open Elective – II Project MOOC Employability Skills and Practices Indian Traditional Knowledge	3 3 2 0 2 2 0 1 1	0 1 1 0 0 1 1 Cree T 0 0 0	0 2 0 0 2 0 dits P 0 2 2 2 2 0 6 0 2	3 3 2 0 3 23 3 3 3 3 3 3 0 0 0 0

					Semester - VIII				
				Course Code	Course Title		lour Wee	-	С
				21CSC503T	Security Service Management	3	1	0	4
				21CSC504J	Android Malware Analysis	3	0	2	4
				21IPC501J ²	Research Methodology	2	1	2	4
				21CSP401L	Major Project	0	0	30	15
				21CSP402L	Major Project	0	0	20	10
				21CSP403L	Internship	0	0	10	5
						Tota	l Cre	edits	27
	Semester - IX				Semester - X				
Course Code	Semester - IX Course Title	Hou We		Course Code	Semester - X Course Title		Hour Wee		С
	Course		ek		Course			k	C 20
Code	Course Title		ek P C	Code	Course Title	L	Wee	k P	-
Code E	Course Title Professional Elective –IX		eek	Code 21CSP501L	Course Title Specialization Project	L 0	Wee	P 40	20
Code E E	Course Title Professional Elective –IX Professional Elective – X		P C 3	Code 21CSP501L 21CSP502L	Course Title Specialization Project Specialization Project	L 0 0	Wee T 0 0 0	P 40 30 10	20 15 5
Code E E E E E	Course Title Professional Elective –IX Professional Elective – X Professional Elective – XI		P C 3 3 3 3 3 3 3 3 3 3 3	Code 21CSP501L 21CSP502L	Course Title Specialization Project Specialization Project	L 0 0	Wee T 0 0 0	P 40 30 10	20 15 5
Code E E E E	Course Title Professional Elective –IX Professional Elective – X Professional Elective – XI Professional Elective – XII	We L 1	P C 3 3 3 3 3 3	Code 21CSP501L 21CSP502L 21CSP503L	Course Title Specialization Project Specialization Project	L 0 0	Wee T 0 0 0	P 40 30 10	20 15 5

#Students have to register either 21CSP401L or 21CSP402L and 21CSP403L both in eighth semester and either 21CSP501L or 21CSP502L and 21CSP503L in tenth semester





SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

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

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