# **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

#### 30. B.Tech. in Computer Science and Business System

#### 30. (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 provide a platform to adapt and work with innovative tools and techniques related to the business decision making process.

#### 30. (b) Program Educational Objectives (PEO)

PEO – 1	Graduates will be able to perform in technical / managerial roles by thorough understanding of contemporary technologies
PEO – 2	Graduates will be able to successfully pursue higher education in reputed institutions where information technology businesses are a priority
PEO – 3	Graduates will be able to apply technology abstraction and common business principles
PE <mark>O – 4</mark>	Graduates will be able to demonstrate innovation abilities.
PEO – 5	Graduates will be able to demonstrate ethics and responsibility and have accumulated life values

30. (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	E William P. Gar	10.25.7	777	
PEO - 2		2	2	100	
PEO - 3	— 1-	10 A M Prof. Prof. 18	3	ATT TO STATE OF	3
PEO - 4	- 100	3 1	The Park to the Land		2
PEO - 5		主, 小儿里	No. of the second	3	3

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

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

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	1 1	2	3	4	5	6	7	8	9	10	11	12			
	Engineering Knowledge	Problem Analysis	Design/development of solutions	Conduct investigations of	Toc	The engineer and society	Environment & Sustainability	Ethics	Individual & Team Work	Communication	Project Mgt. & Finance	Life Long Learning	1-0Sd	Z-0Sd	PSO-3
PEO - 1	3	74.	-	-	3	-	-	-	-	-	2		-	2	-
PEO - 2	-	2	2	-	3	-	3	2	-				2	-	-
PEO - 3	-				-	3	-	-	-		3	2	-	-	3
PEO - 4	-	-	-	3	***	4 5			**	3	3		-	-	-
PEO - 5	-	ı	-	-	3	-	-	3	2	-	-	2	-	-	-

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

#### PSO - Program Specific Outcomes (PSO)

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PSO - 1	To understand, analyse, design, and develop computing solutions by applying fundamental concepts of computer science and engineering
PSO - 2	Ability to create innovative Software for business and service orientations
PSO - 3	Ability to demonstrate personal, organizational and entrepreneurship skills through critical thinking, engage themselves in life-long learning by following innovations in business, science & technology.

# 30. (e) Program Structure: B.Tech. in Computer Science and Business System

Humanities & Social Science							•				
							Basic Science Courses (B)			, ,	
including Management Courses	s (H)			,		Course	Course		lours		
Course Course			ours			Code	Title	<u> </u>	<u>Weel</u>		
Code Title	-	. V	Veel				0	L	T	Р	С
041514047 0 : " 5 " 1		L	T	P 0	<u>C</u>	21PYB102J	Semiconductor Physics and	3	1	2	5
21LEH101T Communicative English		2	1	U	3		Computational Methods	1	1	0	_
21LEH102T Chinese						21MAB101T	Calculus and Linear Algebra	3	1	0	4
21LEH103T French							Statistical Modeling	3	1	0	4
21LEH104T German				•	_		Probability and Statistics	3	1	0	4
21LEH105T Japanese		2	1	0	3	21MAB3021	Discrete Mathematics	3	1	0	4
21LEH106T Korean								Total	Cre	dits	21
21LEH107T Spanish							Professional Core Courses(C)				
21LEH108T Russian			_	•	_		Frotessional Core Courses(C)	T L	lours	. /	
21GNH101J Philosophy of Engineering		1	0	2	2	Course	Course		Wee		
21PDH209T 1 Social Engineering		2	0	0	2	Code	Title	-	T	_	С
21GNH401T Behavioral Psychology		2	1	0	3		Object Oriented Design and	-		•	
21MGH101T Fundamentals of Economics		3	0	0	3	21CSC101T	Programming	2	1	0	3
21MGH102T Fundamentals of Management		3	0	0	3	21CSC201J	Data Structures and Algorithms	3	0	2	4
21MGH103T Basics of Accounting and Costing		2	1	0	3		Operating Systems	3	0	2	4
21MGH201T Human Resource Management		2	0	0	2			3	0	2	4
21MGH202T Financial Management		2	0	0	2	21CSC205P 1	Database Management Systems	3	1	0	4
21MGH203J Market Research		2	0	2	3			2	1	0	3
Introduction to Innovation, Intellect	tual								0		3
21MGH301T Property Management and		3	0	0	3		Formal Language and Automata	3		0	3
Entrepreneurship								3	0	2	4
21MGH302T Business Strategy		3	0	0	3	21CSC303J	Software Engineering and Project	2	0	2	3
21MGH303P 1   IT project Management		2	1	0	3		Management	2	_	2	3
21MGH401T Entrepreneurship and Family Busin	iness	3	0	0	3	21CSC304J	Compiler Design		0		•
management		J	U	U	J			Total	Cre	aits	33
21MGH402T Services Science and Service		3	0	0	3	-	Open Elective Courses (O)				
Operations Management				Ů							
	To	tal (	Crec	lits	44		(Any 1 courses)	L	lours	. /	
Non Credit Courses (M)		_	_			Course	Course		Weel		
		Н	ours	. /		Code	Title	-		P	С
Course Course			Veel			210002517	Web Programming	2	1	0	3
Code Title		T	T	P	С		Python Programming	2	_	_	3
21PDM101L 1 Professional Skills and Practices		0	0	2					1	0	3
21PDM102L <sup>1</sup> General Aptitude		0	0	2			Mobile Application Development	2	1	_	
21PDM201L <sup>1</sup> Verbal Reasoning		0	0	2		210803541	Data Analytics	2	1	0	3
			0	2	0			Total	Cre	aits	03
		11									
21PDM202L <sup>1</sup> Critical and Creative Thinking Skills		0		2		1.1/4					
21PDM202L <sup>1</sup> Critical and Creative Thinking Skills 21PDM301L <sup>1</sup> Analytical and Logical Thinking Skill		0	0	2		1/4			7	i	_
21PDM202L <sup>1</sup> Critical and Creative Thinking Skills 21PDM301L <sup>1</sup> Analytical and Logical Thinking Skill. 21PDM302L <sup>1</sup> Employability Skills and Practices		0	0	2	0	1/2	Engineering Science Courses (S)		<u></u>	<u>.</u>	
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21PDM202L <sup>1</sup> Critical and Creative Thinking Skills 21PDM301L <sup>1</sup> Analytical and Logical Thinking Skills 21PDM302L <sup>1</sup> Employability Skills and Practices 21CYM101T <sup>1</sup> Environmental Science 21LEM101T <sup>1</sup> Constitution of India 21LEM102T <sup>1</sup> Universal Human Values – Introduct 21LEM201T <sup>1</sup> Professional Ethics Universal Human Values-II: 21LEM202T <sup>1</sup> Understanding Harmony and Ethical Human Conduct 21LEM301T <sup>1</sup> Indian Art Form 21LEM302T <sup>1</sup> Indian Traditional Knowledge 21GNM101L <sup>1</sup> Physical and Mental Health using Young 11 Indian Service Scheme 21GNM103L <sup>1</sup> National Cadet Corps	ition	0 0 1 1 1 1 1 2 1 1	0 0 0 0 0 0 1	2 0 0 0 0 0 0 0	0 0 0 3 0 0	Code  21EES101T 21CSS101J 21CSS201T 21DCS201P 21CSS303T  Project Wo  Course Code 21GNP301L 1 21CSP302L 1	Course Title  Electrical and Electronics Engineering Programming for Problem Solving Computer Organization and Architectur Design Thinking and Methodology Data Science  ork, Seminar, Internship in Industry / Higher Institutions (P)  Course Title  Community Connect Project	N	T	P 0 2 0 0 0 0 dits  P 2 6	4 4 4 3 2 17
21PDM202L <sup>1</sup> Critical and Creative Thinking Skills 21PDM301L <sup>1</sup> Analytical and Logical Thinking Skills 21PDM302L <sup>1</sup> Employability Skills and Practices 21CYM101T <sup>1</sup> Environmental Science 21LEM101T <sup>1</sup> Constitution of India 21LEM102T <sup>1</sup> Universal Human Values – Introduct 21LEM201T <sup>1</sup> Professional Ethics Universal Human Values-II: 21LEM202T <sup>1</sup> Understanding Harmony and Ethical Human Conduct 21LEM301T <sup>1</sup> Indian Art Form 21LEM302T <sup>1</sup> Indian Traditional Knowledge 21GNM101L <sup>1</sup> Physical and Mental Health using Young 100 Professional Service Scheme 21GNM103L <sup>1</sup> National Service Scheme	ition	0 0 1 1 1 1 1 2 1 1	0 0 0 0 0 0 1	2 0 0 0 0 0 0 0	0 0 0 3 0 0	Code  21EES101T 21CSS101J 21CSS201T 21DCS201P 21CSS303T  Project Wo  Course Code 21GNP301L 1 21CSP302L 1 21CSP303T 1	Course Title  Electrical and Electronics Engineering Programming for Problem Solving Computer Organization and Architectur Design Thinking and Methodology Data Science  ork, Seminar, Internship in Industry / Higher Institutions (P)  Course Title  Community Connect  Project MOOC	N	T	P	4 4 4 3 2 17 al
21PDM202L <sup>1</sup> Critical and Creative Thinking Skills 21PDM301L <sup>1</sup> Analytical and Logical Thinking Skills 21PDM302L <sup>1</sup> Employability Skills and Practices 21CYM101T <sup>1</sup> Environmental Science 21LEM101T <sup>1</sup> Constitution of India 21LEM102T <sup>1</sup> Universal Human Values – Introduct 21LEM201T <sup>1</sup> Professional Ethics Universal Human Values-II: 21LEM202T <sup>1</sup> Understanding Harmony and Ethical Human Conduct 21LEM301T <sup>1</sup> Indian Art Form 21LEM302T <sup>1</sup> Indian Traditional Knowledge 21GNM101L <sup>1</sup> Physical and Mental Health using Young 100 Professional Service Scheme 21GNM103L <sup>1</sup> National Service Scheme	ition	0 0 1 1 1 1 1 2 1 1	0 0 0 0 0 0 1	2 0 0 0 0 0 0 0	0 0 0 3 0 0	Code  21EES101T 21CSS101J 21CSS201T 21DCS201P 21CSS303T  Project Wo  Course Code 21GNP301L 1 21CSP302L 1 21CSP303T 21CSP401L	Course Title  Electrical and Electronics Engineering Programming for Problem Solving Computer Organization and Architectur Design Thinking and Methodology Data Science  ork, Seminar, Internship in Industry / Higher Institutions (P)  Course Title  Community Connect  Project MOOC Major Project	N	T	P	4 4 4 3 2 17 al
21PDM202L <sup>1</sup> Critical and Creative Thinking Skills 21PDM301L <sup>1</sup> Analytical and Logical Thinking Skills 21PDM302L <sup>1</sup> Employability Skills and Practices 21CYM101T <sup>1</sup> Environmental Science 21LEM101T <sup>1</sup> Constitution of India 21LEM102T <sup>1</sup> Universal Human Values – Introduct 21LEM201T <sup>1</sup> Professional Ethics Universal Human Values-II: 21LEM202T <sup>1</sup> Understanding Harmony and Ethical Human Conduct 21LEM301T <sup>1</sup> Indian Art Form 21LEM302T <sup>1</sup> Indian Traditional Knowledge 21GNM101L <sup>1</sup> Physical and Mental Health using Young 11 Indian Service Scheme 21GNM103L <sup>1</sup> National Cadet Corps	ition	0 0 1 1 1 1 1 2 1 1	0 0 0 0 0 0 1	2 0 0 0 0 0 0 0	0 0 0 3 0 0	Code  21EES101T 21CSS101J 21CSS201T 21DCS201P 21CSS303T  Project Wo  Course Code 21GNP301L 1 21CSP302L 1 21CSP303T 21CSP401L 21CSP401L 21CSP402L	Course Title  Electrical and Electronics Engineering Programming for Problem Solving Computer Organization and Architectur Design Thinking and Methodology Data Science  ork, Seminar, Internship in Industry / Higher Institutions (P)  Course Title  Community Connect  Project MOOC Major Project Major Project Major Project	N	T	P	4 4 4 3 2 17 al C 1 3 15 10
21PDM202L <sup>1</sup> Critical and Creative Thinking Skills 21PDM301L <sup>1</sup> Analytical and Logical Thinking Skills 21PDM302L <sup>1</sup> Employability Skills and Practices 21CYM101T <sup>1</sup> Environmental Science 21LEM101T <sup>1</sup> Constitution of India 21LEM102T <sup>1</sup> Universal Human Values – Introduct 21LEM201T <sup>1</sup> Professional Ethics Universal Human Values-II: 21LEM202T <sup>1</sup> Understanding Harmony and Ethical Human Conduct 21LEM301T <sup>1</sup> Indian Art Form 21LEM302T <sup>1</sup> Indian Traditional Knowledge 21GNM101L <sup>1</sup> Physical and Mental Health using Young 11 Indian Service Scheme 21GNM103L <sup>1</sup> National Cadet Corps	ition	0 0 1 1 1 1 1 2 1 1	0 0 0 0 0 0 1	2 0 0 0 0 0 0 0	0 0 0 3 0 0	Code  21EES101T 21CSS101J 21CSS201T 21DCS201P 21CSS303T  Project Wo  Course Code 21GNP301L 1 21CSP302L 1 21CSP303T 21CSP401L	Course Title  Electrical and Electronics Engineering Programming for Problem Solving Computer Organization and Architectur Design Thinking and Methodology Data Science  ork, Seminar, Internship in Industry / Higher Institutions (P)  Course Title  Community Connect  Project MOOC Major Project Major Project Internship#	N	Vee   T   1   0   1   2   0   Cred   Cred	P   0   0   0   0   0   0   0   0   0	4 4 4 3 2 17 al C 1 3 15 10 5

	Professional Elective Courses (E) (Any 7 Courses)		Professional Elective Courses (E)								
Course Code	Course Title	Hours / week		Course Code	Course			s / k			
		L	T	P	С			L	T	P	C
	Digital Image Processing	3	0	0	3		Network Security and Cryptography	2	1	0	3
	Internet of Things	2	1	0	3		Information Storage and Management	2	1	0	3
21CSE221T	Python Programming for Data Analytics	2	1	0	3	21CSE362T	Cloud Computing	2	1	0	3
21CSE269T	Java Programming	2	1	0	3	21CSE374T	Machine Learning for Enterprise	3	0	0	3
21CSE282T	Information Security	3	0	0	3	21CSE421T	Business Intelligence and Analytics	2	1	0	3
21CSE314T	Computational Statistics	3	0	0	3	21CSE424T	Deep Learning for Data Analytics	2	1	0	3
21CSE315T	Conversational Systems	2	1	0	3	21CSE451T	Pattern Recognition Techniques	2	1	0	3
21CSE316T	Cognitive Science and Analytics	3	0	0	3	21CSE453T	Speech Recognition	2	1	0	3
21CSE317T	Behavioral Economics	2	1	0	3	21CSE456T	Software Defined Networks	2	1	0	3
21CSE318T	Computational Finance and Modeling	2	1	0	3	21CSE458T	Wireless and Mobile Communication	2	1	0	3
21CSE319T	Advance Finance	2	1	0	3	21CSE459T	Wireless Sensor Networks	2	1	0	3
21CSE352T	Neuro Fuzzy and Genetic Programming	2	1	0	3	21CSE481T	Information Visualization	2	1	0	3
21CSE353T	Augmented, Virtual and Mixed Reality	2	1	0	3	21CSE483T	Robotics and Embedded Systems	3	0	0	3
21CSE354T	Full Stack Web Development	2	1	0	3	21CSE484T	Enterprise Systems	3	0	0	3
21CSE355T	Data Mining and Analytics	2	1	0	3	21CSE419T	Usability Design of Software Applications	3	0	0	3
21CSE356T	Natural Language Processing	2	1	0	3	21CSE420T	IT Workshop using Scilab	2	1	0	3
21CSE357T	Distributed Computing	2	1	0	3		T	otal	Cre	dits	21



### 30. (f) Programme Articulation: B.Tech. in Computer Science and Business System

					F	rogra	ım Ou	tcome	es (PO	))					PSO	
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
Course Code	Course Name	Engineering Knowledge	Problem Analysis	Design/development of solutions	Conduct investigations of complex problems	Modern Tool Usage	The engineer and society	Environment & Sustainability	Ethics	ndividual & Team Work	Communication	Project Mgt. & Finance	ife Long Learning	PSO-1	PSO-2	PSO-3
21MGH101T	Fundamentals of Economics	2	3	2	3	2		2	2	2	2	2	-	-	-	-
	Fundamentals of Management	2	2	3	2	2	3	2	-	2	2	2	2	_	2	2
	Basics of Accounting and Costing	2	3	2	3	3	2	3	2	2	3	3	3	_	2	1
	Human Resource Management	-	3	3	-	2	1	-	3	-	-	3	2	-	-	3
	Financial Management		3	_	3			-	1	2		3	3	-	2	3
			-		-	2	2		2	2	2	J	1		2	3
	Market Research Introduction to Innovation, Intellectual Property Management and Entrepreneurship	3	3	2	2	3	2	1	1	2	2	3	2	-	2	2
21MGH302T	Business Strategy	2	2	2	_	-	3	2	2	2	1	3	2		-	2
	I <mark>T pro</mark> ject Management	-	2	-	3	-	-	-	3	-	1	3	-		-	2
21MGH401T	Entrepreneurship and Family Business Management	2	2	3		13	-	-	1	2	2	2	-		2	3
21M <mark>GH4</mark> 02T	Services Science and Service Operations Management	3	3	2	2		1	-	1	-	1	1	) -	-		2
21CSS101J	Programming for Problem Solving	2 -	3	-	- 1		art i	-	-	•	-		2	-	3	-
2 <mark>1CS</mark> S303T	Data Science		100	-	- 1	4.20	11.5	4-	-		-			1	1	-
21CSS201T	Computer Organization and Architecture	3	2	-11	1	-	-		-		-	- [		1	2	1
	Data Structures and Algorithms	2	3	3	1	-	L.	1	5.3	757		-	J.	- 1	1	2
	Object Oriented Design and Programming		2	2	743	2		٠.	-			-	3	-	2	2
	Design and Analysis of Algorithms	2	1	2	1		- 101	12.	. 7	- 51	3	_	3	3	1	-
	Operating Systems	3	3	3	2	7.	100	17.5	74	- 1	-	_	3	2		-
	Software Engineering and Project			-1				-					U			
21CSC303J	Management	14	3	2	Ť	172	<b>-</b>	- 7		2	-	2	i	3	-	-
	Formal Language and Automata	2	2	2			100	-		-	-	-		-	3	-
	Computer Networks	3	-	4.5	2	3	4	-	-	-	-		-	1	-	-
	Database Management Systems	3	2	2		-	-	-	-	-		- [	-	2	1	-
	Compiler Design	3	3	2	3	2	-	-	-	-	-	- "	-	-	1	-
	Artificial Intelligence	1	2	3	-	-	-	-	-	-	-	-	-	1	2	-
21CSE251T	Digital Image Processing	3	3	3	3	•	-	-	-	-	-	-	¥ -	2	3	-
21CSE253T	Internet of Things	2	3	1	3	1	2	-	-	-	1	7-	-	-	Ξ-	-
	Python Programming for Data Analytics			9-1	-	-	-	-	-		-/	-	2		- 1	-
21CSE269T	Java Programming	2	1	2	-1-		-	_	-	-	3-	-	- /	2	-	-
21CSE282T	Information Security	1.70	-	2	-	-	-	-	-	-	-	.2	-		7-	-
	Computational Statistics	2	3	2	3	1	-	-7	1	1.5	L	_		1	1	_
	Conversational Systems	3	3	2	1		-	-	5	IJ	1-		-		-	_
	Cognitive Science and Analytics	2	3	3	÷.		-		-	-	Н.,			1	_	_
	Behavioral Economics	-	2	-	2	1	2	1	2	2	2	2			2	2
	Computational Finance and Modeling	1	2	3	2	2	-	3	-	2	-	2	2	_	-	3
	Advance Finance	2	3	3	2	3	-	1	2	2		3		_		1
	Neuro Fuzzy and Genetic Programming	3	3	-	-	3	-	_	-	-	-	-		-	2	-
	Augmented, Virtual and Mixed Reality	3	-	3		2	-		2		_		_	$\vdash$		2
	Full Stack Web Development	3		2		-			-	-	-	-	-	2	-	
		1	2				) T	-		_						<u> </u>
	Data Mining and Analytics	3	3	2	3	3	-	-	-	-	-	-	-	-	-	<u> </u>
	Natural Language Processing Distributed Computing				3		-	-	-	-	-	-	-	2	$\vdash$	<u> </u>
		-	- 2	3		3	-	-	-	-	-	-	-	2	-	-
	Network Security and Cryptography	2	3	3	-	2	-	-	-	-	-	-	-	-	-	-
	Information Storage and Management	-	-	-	-	-	-	-	-	-	-	-	-	2	2	<u> </u>
	Cloud Computing Technologies	2	-	3	-	3	-	-	-	-	-	-	-	-	-	-
	Machine Learning for Enterprise	3	1	3	1	-	-	-	-	-	-	-	-	1	1	-
	Usability Design of Software Applications	3	2	-	-	-	-	-	-	-	-	-	-	2	2	-
	IT Workshop using Scilab	3	2	-	-	-	2	3	-	1	-	-	-	2	3	-
040054045	Business Intelligence and Analytics	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2
					•							1				2
21CSE424T	Deep Learning for Data Analytics	-	-	-	-	-	-	-	-	-	-	-	-	2	2	
21CSE424T 21CSE451T		3	2 2	2	- - 2	2	-	-	-	-	-	-	-	-	2 3	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
21CSE456T	Software Defined Networks	2	3	1	3	1	2	-		-	-	-	-	-	-	-
21CSE458T	Wireless and Mobile Communication	1	3	2		-	-	,	-	-	-			-	-	-
21CSE459T	Wireless Sensor Networks	1	3	2		14	1	-	-	-	-	-	-	-	-	-
21CSE481T	Information Visualization	2	3	-		-	-	٠.,	-	-	-	-	-	2	1	_
21CSE483T	Robotics and Embedded Systems	3	3	3	2	1	ŀ	-	3	1	-	-	-	2	3	_
21CSE484T	Enterprise Systems	3	-	2	2	3	1	1	-	-		-	2	2	2	_
21CSP302L	Project	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
21CSP303T	MOOC	2	2	_ 2	2	2	-2	2	2	2	2	2	2	2	2	2
21CSP401L	Maj <mark>or Project</mark>	3	3	3	3	3	-3	3	3	3	3	3	3	3	3	3
21CSP402L	Major Project	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
21CSP403L	<u>Internship</u>	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	S	3	3	3



30. (g) Implementation Plan: B.Tech. in Computer Science and Business System

Course Code 21LEH101T 21EES101T 21MGH101T	Semester – I						Semester – II				
Code  21LEH101T 21EES101T 21MGH101T	Course		ours			Course	Course		lours		
21LEH101T 21EES101T 21MGH101T	Title	\	Vee			Code	Title	١	Nee	-	
21EES101T 21MGH101T		L	Τ	Ρ	С			L	Τ	Р	С
21MGH101T		2	1	0	3		Chinese				
		3	1	0	4		French				
04146	Fundamentals of Economics	3	0	0	3	21LEH104T	German				
21MGH102T	Fundamentals of Management	3	0	0	3	21LEH105T	Japanese	2	1	0	3
21MAB101T	Calculus and Linear Algebra	3	1	0	4	21LEH106T	Korean				
21CSS101J	Programming for Problem Solving	3	0	2	4	21LEH107T	Spanish				
21PDM101L1		0	0	2	0		Russian				
21CYM101T		1	0	0	0		Basics of Accounting and Costing	2	1	0	3
21LEM101T 1		1	0	0	0		Philosophy of Engineering	1	0	2	2
		otal		dits			Probability and Statistics	3	1	0	4
							Semiconductor Physics and				
1	Semester - III						Computational Methods	3	1	2	5
		Н	ours	: /			Object Oriented Design and				
Course	Course		Vee				Programming	2	1	0	3
Code	Title	Ι.	T	Р	C		General Aptitude*	0	0	2	0
21MGH201T	Human Resource Management	2	0	0			Physical and Mental Health using Yoga	U	U		U
	Financial Management	2	0	0	2		Physical and Mental Health using Yoga National Service Scheme				
	Statistical Modeling	3	1	0	4		National Cadet Corps	0	0	2	0
	Design Thinking and Methodology	1	2	0	3		National Sports Organization	-			
	Computer Organization and Architecture	3	1	0	4	ZTGNWT04L	, ,	-4-1	0	-1:4 -	20
		3	0	2	4			otal	Cre	aits	20
	Data Structures and Algorithms	3	_				Semester – IV				
	Operating Systems		0	2	4	Course	Course	H	lours	s /	
	Professional Ethics	1	0	0	0	Code	Title	١	Nee	k	
21PDM201L 1	Verbal Reasoning	0	0	2	0	Code	Title	L	Τ	Р	С
	I.	otal	Cre	aits	23		Social Engineering	2	0	0	2
						21MGH203J	Market Research	2	0	2	3
=	2				-1	21MAB302T	Discrete Mathematics	3	1	0	4
<del> </del>	Semester – V			,		21CSC204J	Design and Analysis of Algorithms	3	0	2	4
Course	Course	l	ours			21CSC205P 1	Database Management Systems	3	1	0	4
Code	Title	٧	Vee				Artificial Intelligence	2	1	0	3
		L	Т	Р	С	E	Professional Elective-I	T-	<u> </u>		3
	Introduction to Innovation, Intellectual					21PDM202L <sup>1</sup>	Critical and Creative Thinking Skills	0	0	2	0
	Property Management and	3	0	0	3	Z II DIVIZUZL	Universal Human Values-II:	-	U		U
	Entrepreneurship					21LEM202T 1	Understanding Harmony and Ethical	2	1	0	3
21MGH302T	Business Strategy	3	0	0	3	ZILLIVIZUZI	Human Conduct	2	l '	U	3
	Formal Language and Automata	3	0	0	3			otal	Cro	dite	26
	Computer Networks	3	0	2	4			Ulai	CIE	uito	20
Ε	Professional Elective – II				3		Semester – VI				
0	Open Elective – I				3	Course	Course	H	lours	s /	
21GNP301L 1	Community Connect	0	0	2	1	Code	Title	١	Nee		
	Analytical and Logical Thinking Skills	0	0	2	0		Title	L	Τ	Р	С
	Indian Art Form	1	0	0	0	21MGH303P 1	IT project Management	2	1	0	3
	T	otal	Cre	dits	20	21CSS303T	Data Science	2	0	0	2
						21CSC303J	Software Engineering and Project	2	0	2	2
<u> </u>	Semester – VII					210303033	Management	2	U	2	3
Course	Course	Н	ours	: /		21CSC304J	Compiler Design	2	0	2	3
Course	Course	٧	Vee	k		Е	Professional Elective – III				3
Code	Title	L	Τ	Р	С	Е	Professional Elective – IV				3
04044404	Behavioral Psychology	2	1	0	3		Project	0	0	6	
21GNH401T	Entrepreneurship and Family Business					21CSP303T <sup>1</sup>	MOOC	3	0	0	3
	Management	3	0	0	3	21PDM302L <sup>1</sup>	Employability Skills and Practices	0	0	2	0
21MGH401T	Services Science and Service Operations	_	_	_	_	21LEM302T <sup>1</sup>	Indian Traditional Knowledge	1	0	0	0
21MGH401T	Management Science and Science Sperations	3	0	0	3	LILLIVIOUZI		otal			_
21MGH401T					3			Jiai	OIE	uito	20
21MGH401T 21MGH402T	Professional Elective – V				3		Semester - VIII				
21MGH401T 21MGH402T E	Professional Elective – V					11	CONTROL - VIII				
21MGH401T 21MGH402T E E	Professional Elective – VI							На	lire	/	
21MGH401T 21MGH402T E E	Professional Elective – VI Professional Elective – VII	401	C	d:4a	3	Course	Course		urs		
21MGH401T 21MGH402T E E	Professional Elective – VI Professional Elective – VII	otal	Cre	dits	3	Course Code	Course Title	W	ee <u>k</u>		C
21MGH401T 21MGH402T E E E	Professional Elective – VI Professional Elective – VII Ti				3	Code	Title	L W	eek T	Р	C 15
21MGH401T  21MGH402T  E E E E #Students have	Professional Elective – VI Professional Elective – VII  To e to register either 21CSP401L or 21CSP4				3	Code 21CSP401L	Title  Major Project	L 0	reek T 0	P 30	15
21MGH401T  21MGH402T  E E E E #Students have	Professional Elective – VI Professional Elective – VII Ti				3	21CSP401L 21CSP402L	Title  Major Project  Major Project	U L 0 0	T 0 .	P 30 20	15 10
21MGH401T  21MGH402T  E E E E #Students have	Professional Elective – VI Professional Elective – VII  To e to register either 21CSP401L or 21CSP4				3	Code 21CSP401L	Title  Major Project  Major Project  Internship#	0 0 0	/eek T 0 -	P 30 20	15 10 5
21MGH401T  21MGH402T  E E E E #Students have	Professional Elective – VI Professional Elective – VII  To e to register either 21CSP401L or 21CSP4				3	21CSP401L 21CSP402L	Title  Major Project  Major Project  Internship#	U L 0 0	/eek T 0 -	P 30 20	15 10 5



# SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

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

Kattankulathur, Chengalpattu District 603203, Tamil Nadu, India