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

49. Integrated M.Tech. in Computer Science and Engineering

49. (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*

49. (b) Program Educational Objectives (PEO)

PEO – 1	*Graduates will be able to demonstrate their knowledge in technical/managerial roles with right skills and aptitude in software industries and R&D sectors*
PEO – 2	*Graduates will possess the proficiencies and additional skills in core computer science and engineering discipline in par with industry requirements.*
PEO – 3	*Graduates will be able to successfully pursue higher education in reputed institutions and also extend their research career.*
PEO – 4	*Graduates will be self-empowered solution providers and entrepreneurs in Computer Science and Engineering*
PEO – 5	*Graduates will possess the ability to adapt, contribute and innovate new technologies and systems in the key domains of Computer Science and Engineering*

49. (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	3	3	2	3
PEO - 2	3	3	3	2	3
PEO - 3	3	3	3	3	3
PEO - 4	3	2	3	2	3
PEO - 5	3	3	3	2	3

3 – High Correlation, 2 – Medium Correlation, 1 – Low Correlation

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

	Program Outcomes (PO)												Program Specific Outcomes (PSO)		
	1	2	3	4	5	6	7	8	9	10	11	12			
	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	3	3	3	3	2	2	2	3	3	3	3	3	3	3
PEO - 2	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3
PEO - 3	3	3	3	3	3	2	2	3	3	3	2	3	3	3	3
PEO - 4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
PEO - 5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

3 – High Correlation, 2 – Medium Correlation, 1 – Low Correlation

PSO – Program Specific Outcomes (PSO)

PSO - 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 use appropriate upcoming technologies and implement software solutions.*

49. (e) Program Structure: Integrated M.Tech. in Computer Science and Engineering

Humanities & Social Sciences including Management Courses (H)

Course Code	Course Title	Hours / Week L	T	P	C
21LEH101T	Communicative English	2	1	0	3
21LEH102T	Chinese	2	1	0	3
21LEH103T	French				
21LEH104T	German				
21LEH105T	Japanese				
21LEH106T	Korean				
21LEH107T	Spanish				
21LEH108T	Russian				
21GNH101J	Philosophy of Engineering	1	0	2	2
21PDH209T [1]	Social Engineering	2	0	0	2
21GNH401T	Behavioral Psychology	2	1	0	3
				Total Credits	13

Engineering Science Courses (S)

Course Code	Course Title	Hours / Week L	T	P	C
21EES101T	Electrical and Electronics Engineering	3	1	0	4
21MES101L [1]	Basic Civil and Mechanical Workshop	0	0	4	2
21MES102L [1]	Engineering Graphics and Design	0	0	4	2
21CSS101J	Programming for Problem Solving	3	0	2	4
21CSS201T	Computer Organization and Architecture	3	1	0	4
21DCS201P [1]	Design Thinking and Methodology	1	2	0	3
21CSS303T	Data Science	2	0	0	2
				Total Credits	21

Open Elective Courses
(Any 4 Courses)

Course Code	Course Title	Hours/ Week L	T	P	C
21CSO351T	Web Programming	2	1	0	3
21CSO352T	Python Programming	2	1	0	3
21CSO353T	Mobile Application Development	2	1	0	3
21CSO354T	Data Analytics	2	1	0	3
				Total Credits	12

Project Work, Seminar, Internship in Industry / Higher Technical Institutions (P)

Course Code	Course Title	Hours / Week L	T	P	C
21GNP301L [1]	Community Connect	0	0	2	1
21CSP302L [1]	Project	0	0	6	3
21CSP303T [1]	MOOC	3	0	0	
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
				Total Credits	39

Basic Science Courses (B)

Course Code	Course Title	Hours / Week L	T	P	C
21PYB102J	Semiconductor Physics and Computational Methods	3	1	2	5
21CYB101J	Chemistry	3	1	2	5
21MAB101T	Calculus and Linear Algebra	3	1	0	4
21MAB102T	Advanced Calculus and Complex Analysis	3	1	0	4
21MAB201T	Transforms and Boundary Value Problems	3	1	0	4
21MAB204T	Probability and Queueing Theory	3	1	0	4
21MAB302T	Discrete Mathematics	3	1	0	4
21BTB102T	Introduction to Computational Biology	2	0	0	2
				Total Credits	32

Professional Core Courses (C)

Course Code	Course Title	Hours / Week L	T	P	C
21CSC101T	Object Oriented Design and Programming	2	1	0	3
21CSC201J	Data Structures and Algorithms	3	0	2	4
21CSC202J	Operating Systems	3	0	2	4
21CSC203P [1]	Advanced Programming Practice	3	1	0	4
21CSC204J	Design and Analysis of Algorithms	3	0	2	4
21CSC205P [1]	Database Management Systems	3	1	0	4
21CSC206T	Artificial Intelligence	2	1	0	3
21CSC301T	Formal Language and Automata	3	0	0	3
21CSC302J	Computer Networks	3	0	2	4
21CSC303J	Software Engineering and Project Management	2	0	2	3
21CSC304J	Compiler Design	2	0	2	3
21CSC305P [1]	Machine Learning	2	1	0	3
21CSC402P [1]	Report Writing	2	0	0	2
21CSC510T	Parallel Computing	3	1	0	4
21CSC511J	Web Technologies	3	0	2	4
21CSC512J	Wireless and Mobile Computing	3	0	2	4
21IPC501J [2]	Research Methodology	2	1	2	4
				Total Credits	60

Non Credit Courses (M)

Course Code	Course Title	Hours / Week L	T	P	C
21PDM101L [1]	Professional Skills and Practices	0	0	2	0
21PDM102L [1]	General Aptitude	0	0	2	
21PDM201L [1]	Verbal Reasoning	0	0	2	
21PDM202L [1]	Critical and Creative Thinking Skills	0	0	2	
21PDM301L [1]	Analytical and Logical Thinking Skills	0	0	2	
21PDM302L [1]	Employability Skills and Practices	0	0	2	
21CYM101T [1]	Environmental Science	1	0	0	0
21LEM101T [1]	Constitution of India	1	0	0	0
21LEM102T [1]	Universal Human Values – Introduction	1	0	0	0
21LEM201T [1]	Professional Ethics	1	0	0	0
21LEM202T [1]	Universal Human Values-II: Understanding Harmony and Ethical Human Conduct	2	1	0	3
21LEM301T [1]	Indian Art Form	1	0	0	0
21LEM302T [1]	Indian Traditional Knowledge	1	0	0	0
21GNM101L [1]	Physical and Mental Health using Yoga	0	0	2	0
21GNM102L [1]	National Service Scheme				
21GNM103L [1]	National Cadet Corps				
21GNM104L [1]	National Sports Organization				
				Total Credits	03

Professional Elective Courses (E) *(Any 13 Courses)*					
Course Code	Course Title	Hours / Week			
		L	T	P	C
21CSE251T	*Digital Image Processing*	*3*	*0*	*0*	*3*
21CSE252T	*Biometrics*	*2*	*1*	*0*	*3*
21CSE253T	*Internet of Things*	*2*	*1*	*0*	*3*
21CSE254T	*Bio Inspired Computing*	*2*	*1*	*0*	*3*
21CSE255T	*Computer Graphics and Animation*	*2*	*1*	*0*	*3*
21CSE310J	*Quantum Computation*	*2*	*0*	*2*	*3*
21CSE327T	*Cloud Computing for Data Analytics*	*2*	*1*	*0*	*3*
21CSE351T	*Computational Logic*	*2*	*1*	*0*	*3*
21CSE352T	*Neuro Fuzzy and Genetic Programming*	*2*	*1*	*0*	*3*
21CSE353T	*Augmented, Virtual and Mixed Reality*	*2*	*1*	*0*	*3*
21CSE354T	*Full Stack Web Development*	*2*	*1*	*0*	*3*
21CSE355T	*Data mining and Analytics*	*2*	*1*	*0*	*3*
21CSE356T	*Natural Language Processing*	*2*	*1*	*0*	*3*
21CSE357T	*Distributed Computing*	*2*	*1*	*0*	*3*
21CSE358T	*Network Security and Cryptography*	*2*	*1*	*0*	*3*
21CSE359T	*Information Storage and Management*	*2*	*1*	*0*	*3*
21CSE360T	*High Performance Computing*	*2*	*1*	*0*	*3*
21CSE361T	*Database security and Privacy*	*2*	*1*	*0*	*3*
21CSE362T	*Cloud Computing*	*2*	*1*	*0*	*3*
21CSE416T	*Robotics: Computational Motion Planning*	*3*	*0*	*0*	*3*
21CSE417T	*Reinforcement Learning Techniques*	*2*	*1*	*0*	*3*
21CSE418T	*Cyber Physical Systems*	*3*	*0*	*0*	*3*
21CSE421T	*Business Intelligence and Analytics*	*2*	*1*	*0*	*3*
21CSE422T	*Convolutional Neural Networks*	*2*	*1*	*0*	*3*
21CSE425T	*Advanced Machine Learning*	*2*	*1*	*0*	*3*
21CSE426T	*Financial Machine Learning*	*2*	*1*	*0*	*3*

Professional Elective Courses (E)					
Course Code	Course Title	Hours / Week			
		L	T	P	C
21CSE428T	*Healthcare Analytics*	*2*	*1*	*0*	*3*
21CSE451T	*Pattern Recognition Techniques*	*2*	*1*	*0*	*3*
21CSE452T	*Semantic Web*	*2*	*1*	*0*	*3*
21CSE453T	*Speech Recognition*	*2*	*1*	*0*	*3*
21CSE454T	*Computer Vision*	*2*	*1*	*0*	*3*
21CSE455T	*Social Network Analysis*	*2*	*1*	*0*	*3*
21CSE456T	*Software Defined Networks*	*2*	*1*	*0*	*3*
21CSE457T	*Service Oriented Architecture*	*2*	*1*	*0*	*3*
21CSE458T	*Wireless and Mobile Communication*	*2*	*1*	*0*	*3*
21CSE459T	*Wireless Sensor Networks*	*2*	*1*	*0*	*3*
21CSE460T	*Network Protocols and Algorithms*	*2*	*1*	*0*	*3*
21CSE522T	*Functional Programming*	*2*	*1*	*0*	*3*
21CSE531T	*Cyber Security Operations*	*2*	*1*	*0*	*3*
21CSE535T	*Network Intrusions and Computer Forensics*	*2*	*1*	*0*	*3*
21CSE536T	*Mobile Forensics*	*2*	*1*	*0*	*3*
21CSE541T	*Probabilistic Graphical Models: Principles and Techniques*	*3*	*0*	*0*	*3*
21CSE542T	*Deep Generative Models*	*3*	*0*	*0*	*3*
21CSE543T	*Brain machine Interface: Science, Technology and Application*	*3*	*0*	*0*	*3*
21CSE544T	*Data Analysis and Visualization*	*3*	*0*	*0*	*3*
21CSE545T	*Computational Perception and Cognition*	*3*	*0*	*0*	*3*
21CSE548T	*Spatial and Temporal Computing*	*3*	*0*	*0*	*3*
21CSE553T	*Neural Network models of Cognition*	*3*	*0*	*0*	*3*
				Total Credits	**33**

49. (f) Programme Articulation: Integrated M.Tech. in Computer Science and Engineering

Course Code	Course Name	Program Outcomes (PO)												PSO		
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
		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	-	3	-
21CSS303T	Data Science	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-
21CSS201T	Computer Organization and Architecture	3	2	-	-	-	-	-	-	-	-	-	-	1	2	1
21CSC201J	Data Structures and Algorithms	2	3	3	1	-	-	-	-	-	-	-	-	1	1	2
21CSC101T	Object Oriented Design and Programming	-	2	2	-	2	-	-	-	-	-	-	3	-	2	2
21CSC204J	Design and Analysis of Algorithms	2	1	2	1	-	-	-	-	-	3	-	3	3	1	-
21CSC202J	Operating Systems	3	3	3	2	-	-	-	-	-	-	-	3	2	-	-
21CSC303J	Software Engineering and Project Management	-	3	2	-	-	-	-	-	2	-	2	-	3	-	-
21CSC203P	Advanced Programming Practice	3	2	2	1	2	-	-	-	1	-	-	-	2	-	-
21CSC301T	Formal Language and Automata	2	2	2	-	-	-	-	-	-	-	-	-	-	3	-
21CSC302J	Computer Networks	3	-	-	2	3	-	-	-	-	-	-	-	1	-	-
21CSC205P	Database Management Systems	3	2	2	-	-	-	-	-	-	-	-	-	2	1	-
21CSC304J	Compiler Design	3	3	2	3	2	-	-	-	-	-	-	-	-	1	-
21CSC206T	Artificial Intelligence	1	2	3	-	-	-	-	-	-	-	-	-	1	2	-
21CSC305P	Machine Learning	-	3	-	3	-	-	-	-	-	-	-	-	-	1	3
21CSE251T	Digital Image Processing	3	2	2	3	-	-	-	-	-	-	-	-	2	3	-
21CSE252T	Biometrics	3	-	1	2	-	-	-	-	2	-	-	-	-	1	-
21CSE253T	Internet of Things	1	2	1	3	1	2	-	-	-	-	-	-	-	-	2
21CSE254T	Bio Inspired Computing	2	2	2	2	-	-	-	-	-	-	-	-	-	3	2
21CSE255T	Computer Graphics and Animation	3	2	3	-	2	-	-	-	-	-	-	-	-	3	2
21CSE310J	Quantum Computation	2	3	1	3	-	-	-	-	-	-	-	-	-	-	-
21CSE327T	Cloud Computing for Data Analytics	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2
21CSE351T	Computational Logic	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-
21CSE352T	Neuro Fuzzy and Genetic Programming	2	3	-	-	3	-	-	-	-	-	-	-	-	2	-
21CSE353T	Augmented, Virtual and Mixed Reality	3	-	3	-	2	-	-	2	-	-	-	-	-	-	2
21CSE354T	Full Stack Web Development	3	2	2	-	-	-	-	-	-	-	-	-	2	-	-
21CSE355T	Data Mining and Analytics	1	2	-	-	3	-	-	-	-	-	-	-	2	-	-
21CSE356T	Natural Language Processing	3	3	2	3	3	-	-	-	-	-	-	-	2	-	-
21CSE357T	Distributed Computing	-	-	2	2	2	-	-	-	-	-	-	-	2	-	-
21CSE358T	Network Security and Cryptography	2	3	2	-	2	-	-	-	-	-	-	-	2	-	-
21CSE359T	Information Storage and Management	-	3	3	-	1	-	-	-	-	-	-	-	1	2	-
21CSE360T	High Performance Computing	1	1	1	1	2	-	-	-	-	-	-	-	-	3	-
21CSE361T	Database Security and Privacy	3	2	2	2	1	-	-	-	-	-	-	2	1	-	-
21CSE362T	Cloud Computing	2	1	1	1	2	-	-	-	-	-	-	-	2	-	-
21CSE416T	Robotics :Computational Motion Planning	3	3	2	-	-	-	-	-	-	-	-	-	1	2	3
21CSE417T	Reinforcement Learning Techniques	3	3	-	3	-	-	-	-	-	-	-	-	-	-	3
21CSE418T	Cyber Physical Systems	3	3	2	-	-	-	-	-	-	-	-	-	2	-	3
21CSE421T	Business Intelligence and Analytics	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2
21CSE422T	Convolutional Neural Networks	-	-	-	-	-	-	-	-	-	-	-	1	2	2	2
21CSE425T	Advanced Machine Learning	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2
21CSE426T	Financial Machine Learning	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2
21CSE428T	Healthcare Analytics	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2
21CSE451T	Pattern Recognition Techniques	3	2	2	-	2	-	-	-	-	-	-	-	1	2	2
21CSE452T	Semantic Web	2	2	3	2	2	-	-	-	-	-	-	-	-	3	-
21CSE453T	Speech Recognition	2	2	2	2	-	-	-	-	-	-	-	-	-	3	-
21CSE454T	Computer Vision	2	2	1	1	1	-	-	-	-	-	-	-	3	-	2
21CSE455T	Social Network Analysis	2	3	2	3	3	-	-	-	-	-	-	-	-	2	2
21CSE456T	Software Defined Networks	1	1	1	3	1	2	-	-	-	-	-	-	2	-	
21CSE457T	Service Oriented Architecture	2	1	2	-	-	-	-	-	-	-	-	-	2-	-	-
21CSE458T	Wireless and Mobile Communication	1	2	2	-	-	-	-	-	-	-	-	-	1	-	-
21CSE459T	Wireless Sensor Networks	1	2	2	-	-	-	-	-	-	-	-	-	1	-	-
21CSE460T	Network Protocols and Algorithms	1	2	1	-	-	-	-	-	-	-	-	-	1	-	-
21CSE522T	Functional Programming	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1
21CSE531T	Cyber Security Operations	-	2	-	-	-	-	2	-	-	3	-	3	-	-	3

Course Code	Course Name	Program Outcomes (PO)												PSO		
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
		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
21CSE535T	*Network Intrusions and Computer Forensics*	*2*	*2*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*3*
21CSE536T	*Mobile Forensics*	*-*	*-*	*2*	*-*	*-*	*-*	*-*	*2*	*-*	*-*	*-*	*-*	*-*	*-*	*3*
21CSE541T	*Probabilistic Graphical Models : Principles and Techniques*	*2*	*-*	*-*	*3*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*3*
21CSE542T	*Deep Generative Models*	*-*	*3*	*-*	*3*	*-*	*-*	*-*	*-*	*3*	*-*	*-*	*-*	*1*	*-*	*3*
21CSE543T	*Brain machine Interface : Science, Technology and Application*	*3*	*2*	*-*	*3*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*1*	*1*	*3*
21CSE544T	*Data Analysis and Visualization*	*1*	*-*	*-*	*3*	*2*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*3*	*1*	*3*
21CSE545T	*Computational Perception and Cognition*	*3*	*3*	*-*	*3*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*2*	*1*	*3*
21CSE548T	*Spatial and Temporal Computing*	*-*	*2*	*2*	*-*	*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	*Major Project*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*
21CSP402L	*Semester Internship-I*	*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*
21CSP502L	*Semester Internship-II*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*	*3*
Program Average																

49. (g) Implementation Plan: Integrated M.Tech. in Computer Science and Engineering

Semester – I

Course Code	Course Title	Hours / Week L	T	P	C
21LEH101T	Communicative English	2	1	0	3
21MAB101T	Calculus and Linear Algebra	3	1	0	4
21PYB102J	Semiconductor Physics and Computational Methods	3	1	2	5
21MES102L [1]	Engineering Graphics and Design	0	0	4	2
21EES101T	Electrical and Electronics Engineering	3	1	0	4
21CSS101J	Programming for Problem Solving	3	0	2	4
21CYM101T [1]	Environmental Science*	1	0	0	0
21PDM101L [1]	Professional Skills and Practices	0	0	2	0
21LEM101T [1]	Constitution of India	1	0	0	0
				Total Credits	22

Semester – II

Course Code	Course Title	Hours / Week L	T	P	C
21LEH102T	Chinese	2	1	0	3
21LEH103T	French				
21LEH104T	German				
21LEH105T	Japanese				
21LEH106T	Korean				
21LEH107T	Spanish				
21LEH108T	Russian				
21GNH101J	Philosophy of Engineering	1	0	2	2
21MAB102T	Advanced Calculus and Complex Analysis	3	1	0	4
21CYB101J	Chemistry	3	1	2	5
21BTB102T	Introduction to Computational Biology	2	0	0	2
21CSC101T	Object Oriented Design and Programming	2	1	0	3
21MES101L [1]	Basic Civil and Mechanical Workshop	0	0	4	2
21PDM102L [1]	General Aptitude*	0	0	2	0
21GNM101L [1]	Physical and Mental Health using Yoga	0	0	2	0
21GNM102L [1]	National Service Scheme				
21GNM103L [1]	National Cadet Corps				
21GNM104L [1]	National Sports Organization				
				Total Credits	21

Semester – III

Course Code	Course Title	Hours / Week L	T	P	C
21MAB201T	Transforms and Boundary Value Problems	3	1	0	4
21CSC201J	Data Structures and Algorithms	3	0	2	4
21CSC202J	Operating Systems	3	0	2	4
21CSC203P [1]	Advanced Programming Practice	3	1	0	4
21CSS201T	Computer Organization and Architecture	3	1	0	4
21DCS201 P [1]	Design Thinking and Methodology	1	2	0	3
21LEM201T [1]	Professional Ethics	1	0	0	0
21PDM201L [1]	Verbal Reasoning	0	0	2	0
				Total Credits	23

Semester – IV

Course Code	Course Title	Hours / Week L	T	P	C
21MAB204T	Probability and Queueing Theory	3	1	0	4
21CSC204J	Design and Analysis of Algorithms	3	0	2	4
21CSC205P [1]	Database Management Systems	3	1	0	4
21CSC206T	Artificial Intelligence	2	1	0	3
E	Professional Elective – I				3
21PDH209T [1]	Social Engineering	2	0	0	2
21PDM202L [1]	Critical and Creative Thinking Skills	0	0	2	0
21LEM202T [1]	Universal Human Values-II: Understanding Harmony and Ethical Human Conduct	2	1	0	3
				Total Credits	23

Semester – V

Course Code	Course Title	Hours / Week L	T	P	C
21MAB302T	Discrete Mathematics	3	1	0	4
21CSC301T	Formal Language and Automata	3	0	0	3
21CSC302J	Computer Networks	3	0	2	4
21CSC305P [1]	Machine learning	2	1	0	3
E	Professional Elective – II				3
O	Open Elective – I				3
21GNP301L [1]	Community Connect	0	0	2	1
21PDM301L [1]	Analytical and Logical Thinking Skills	0	0	2	0
21LEM301T [1]	Indian Art Form	1	0	0	0
				Total Credits	21

Semester – VI

Course Code	Course Title	Hours / Week L	T	P	C
21CSS303T	Data Science	2	0	0	2
21CSC303J	Software Engineering and Project Management	2	0	2	3
21CSC304J	Compiler Design	2	0	2	3
E	Professional Elective – III				3
E	Professional Elective – IV				3
O	Open Elective – II				3
21CSP302L [1]	Project	0	0	6	3
21CSP303T [1]	MOOC	3	0	0	
21PDM302L [1]	Employability Skills and Practices	0	0	2	0
21LEM302T [1]	Indian Traditional Knowledge	1	0	0	0
				Total Credits	20

Semester – VII

Course Code	Course Title	Hours / Week L	T	P	C
21GNH401T	Behavioral Psychology	2	1	0	3
E	Professional Elective – V				3
E	Professional Elective – VI				3
21CSC511J	Web Technologies	3	0	2	4
21CSC402P [1]	Report writing	2	0	0	2
O	Open Elective –III				3
				Total Credits	18

Semester - VIII

Course Code	Course Title	Hours / Week			C
		L	T	P	
21CSC510T	*Parallel Computing*	*3*	*1*	*0*	*4*
21CSC512J	*Wireless and Mobile Computing*	*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*
				Total Credits	**27**

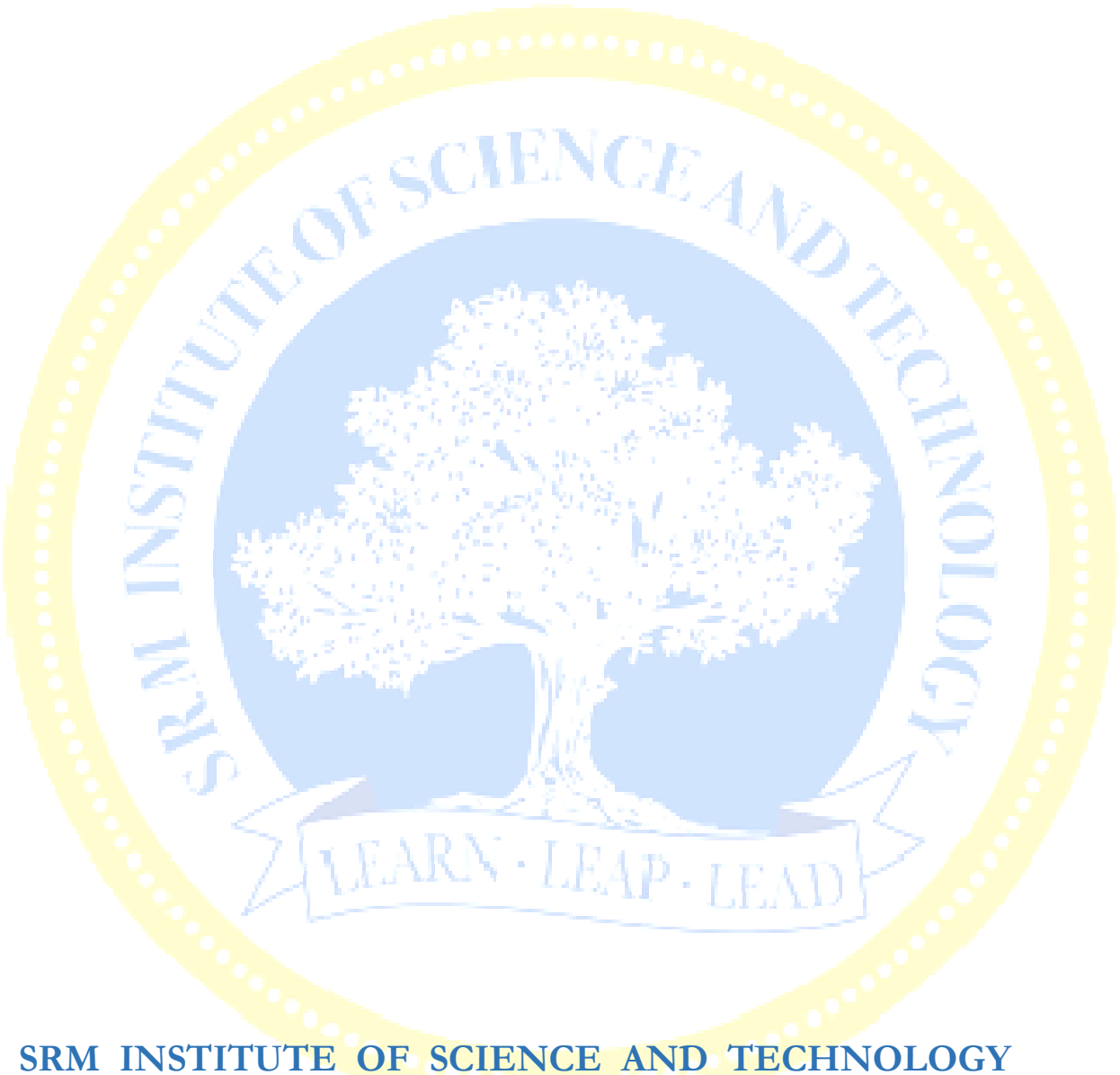
Semester - IX

Course Code	Course Title	Hours / Week			C
		L	T	P	
E	*Professional Elective – VII*				*3*
E	*Professional Elective – VIII*				*3*
E	*Professional Elective –IX*				*3*
E	*Professional Elective – X*				*3*
E	*Professional Elective –XI*				*3*
O	*Open Elective-IV*				*3*
				Total Credits	**18**

Semester - X

Course Code	Course Title	Hours / Week			C
		L	T	P	
21CSP501L	*Specialization Project*	*0*	*0*	*40*	*20*
21CSP502L	*Specialization Project*	*0*	*0*	*30*	*15*
21CSP503L	*Domain Internship*	*0*	*0*	*10*	*5*
				Total Credits	**20**

#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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