

ACADEMIC CURRICULA
UNDERGRADUATE/ INTEGRATED
POST GRADUATE DEGREE
PROGRAMMES

(With exit option of Diploma)

(Choice Based Flexible Credit System)

Regulations 2021

Volume – 1

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SRM
INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University u/s 3 of UGC Act, 1956)

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

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

Kattankulathur, Chengalpattu District 603203,

Tamil Nadu, India

47. B.Tech. in Nanotechnology

47. (a) Mission of the Department

Mission Stmt – 1	Actively contribute for the development of nanoscience, engineering and technology through world-class infrastructure, teaching & research
Mission Stmt – 2	Establish collaborative research with the institutions of national and international repute
Mission Stmt – 3	Encourage industry-academia interactions to translate scientific findings into technological development to meet the societal needs
Mission Stmt – 4	Organize and actively participate in workshops, conferences and seminars on advancements in nanoscience and nanotechnology
Mission Stmt – 5	Focus on developing skills of students to enhance the employability in various organizations

47. (b) Program Educational Objectives (PEO)

PEO – 1	Provide understanding of physical, chemical and biological principles in the multi-disciplinary field of nanoscience and nanotechnology
PEO – 2	Develop skills on the synthesis of nanomaterials and fabrication of micro- and nano-structures
PEO – 3	Familiarize the graduates with the advanced nanoscale characterization techniques and develop the analytical ability
PEO – 4	Enable graduates with professional, scientific research, and computational skills for employment in industries, R & D centres and higher education
PEO – 5	Prepare the graduates to take individual and teamwork responsibilities in a multidisciplinary environment

47. (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	2	1	3	1
PEO - 2	3	3	2	3	3
PEO - 3	3	3	2	3	2
PEO - 4	3	2	3	2	3
PEO - 5	2	3	3	3	2

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

47. (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	PSO-1	PSO-2	PSO-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			
PEO - 1	3	3	3	3	3	2	2	2	2	2	2	3	3	3	3
PEO - 2	3	3	3	3	3	2	2	2	3	3	3	2	3	3	3
PEO - 3	3	3	3	3	3	2	2	2	3	3	3	2	3	3	3
PEO - 4	3	3	3	3	3	2	3	3	2	3	3	3	3	3	3
PEO - 5	3	3	3	2	2	2	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	Ability to understand materials and their properties at the atomic and nanometer scales, including an understanding of the intimate relationship between the scale and the properties of materials
PSO - 2	Ability to apply the learnt nanotechnology principles, analyze, evaluate and design advanced systems & processes
PSO - 3	Ability to employ the acquired skills in nanotechnology for the benefit of self and society

47. (e) Program Structure: B.Tech. in Nanotechnology

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
21PDH209T ¹	Social Engineering	2	0	0	2	
21GNH401T	Behavioural Psychology	2	1	0	3	
Total Credits 13						
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 6 Courses)						
Course Code	Course Title	Hours / Week				
		L	T	P	C	
21NTE201T	Carbon Nanotechnology	3	0	0	3	
21NTE202P ¹	Vacuum and Thin film technology	2	1	0	3	
21NTE203T	Nanotribology	3	0	0	3	
21NTE204T	Surfaces and Interfaces	3	0	0	3	
21NTE301T	Spectroscopy tools for nanoscale analysis	3	0	0	3	
21NTE302P ¹	Lithography Techniques and Fabrication	2	1	0	3	
21NTE303T	Sensors and Transducers	3	0	0	3	
21NTE304T	Green Nanotechnology	3	0	0	3	
21NTE305T	Nano magnetism and Spintronics	3	0	0	3	
21NTE306T	2D layered Nanomaterials	3	0	0	3	
21NTE307T	Nano catalysts	3	0	0	3	
21NTE308T	MEMS and NEMS	3	0	0	3	
21NTE309T	Solid State Devices	3	0	0	3	
21NTE310T	Nanotechnology in Cosmetics	3	0	0	3	
21NTE311T	Nanomedicine	3	0	0	3	
21NTE312T	Microelectronics and VLSI	3	0	0	3	
21NTE313T	Nanotechnology for Energy Systems	3	0	0	3	
21NTE314T	Physics of Electronic Materials	3	0	0	3	
21NTE315T	Nanotechnology in food production	3	0	0	3	

Basic Science Courses (B)						
Course Code	Course Title	Hours / Week				
		L	T	P	C	
21MAB101T	Calculus and Linear Algebra	3	1	0	4	
21MAB102T	Advanced Calculus and Complex Analysis	3	1	0	4	
21CYB101J	Chemistry	3	1	2	5	
21BTB103T	Biology	2	0	0	2	
21PYB102J	Semiconductor Physics and Computational Methods	3	1	2	5	
21MAB201T	Transforms and Boundary Value Problems	3	1	0	4	
21MAB202T	Numerical Methods	3	1	0	4	
21MAB301T	Probability and Statistics	3	1	0	4	
Total Credits 32						
Professional Core Courses (C)						
Course Code	Course Title	Hours / Week				
		L	T	P	C	
21NTC101T	Nanoscience and Nanotechnology	3	0	0	3	
21NTC201J	Nanoscale Materials Chemistry	3	0	2	4	
21NTC202T	Quantum Mechanics for Nanotechnologists	3	0	0	3	
21NTC203T ²	Thermodynamics and Statistical Mechanics	3	0	0	3	
21NTC204J	Advanced Characterization of Nanomaterials	3	0	2	4	
21NTC205T	Design and Synthesis of Nanomaterials	3	1	0	4	
21NTC206T ²	Solid State Engineering	3	0	0	3	
21CSC206T	Artificial Intelligence	2	1	0	3	
21NTC301J	Micro and Nanofabrication	3	0	2	4	
21NTC302J	Nanoelectronics	2	0	2	3	
21NTC303T ²	Nanobiotechnology	3	0	0	3	
21NTC304T ²	Nanotoxicology	3	0	0	3	
21NTC305L ¹	Nanobiotechnology and Nanotoxicology Laboratory	0	0	6	3	
21NTC401J ²	Polymer and Nanocomposites	2	0	2	3	
21NTC402T	Modeling and Computational Tools	3	0	0	3	
Total Credits 49						
Professional Elective Courses (E)						
Course Code	Course Title	Hours / Week				
		L	T	P	C	
21NTE316T	Advanced Drug Delivery Systems	3	0	0	3	
21NTE317T	Societal Implications of Nanotechnology	3	0	0	3	
21NTE401T	Nanotechnology in Tissue Engineering	3	0	0	3	
21NTE402T	Micro and Nanofluidics	3	0	0	3	
21NTE403T	Nanorobotics	3	0	0	3	
21NTE404T	Photovoltaic Technology	3	0	0	3	
21NTE405T	Advanced computational Techniques	3	0	0	3	
21NTE406T	Nanotechnology Legal Aspects	3	0	0	3	
21NTE407T	Micro and Nano Emulsions	3	0	0	3	
21NTE408T	Supramolecular Systems	3	0	0	3	
21NTE409T	Cancer Nanotechnology	3	0	0	3	
21NTE410T	Atomistic Modeling	3	0	0	3	
21NTE411T	Nanotechnology in Textiles	3	0	0	3	
21NTE412T	Nano photonics	3	0	0	3	
Total Credits 18						

Open Elective Courses (O) (Any 3 Courses)						
Course Code	Course Title	Hours / Week				
		L	T	P	C	
21NTO301T	Applications of Nanotechnology	3	0	0	3	
21NTO302T	Solid State Electronic Devices	3	0	0	3	
21NTO303T	Micro and Nanoelectronics	3	0	0	3	
21NTO304T	Environmental Nanotechnology	3	0	0	3	
21NTO305T	Medical Nanotechnology	3	0	0	3	
21NTO306T	Nanoscale Surface Engineering	3	0	0	3	
21NTO307T	Nanocomputing	3	0	0	3	
21NTO308T	Smart Sensor Systems	3	0	0	3	
21NTO309T	2D Materials and Applications	3	0	0	3	
21NTO310T	Nano and Micro Electromechanical Systems	3	0	0	3	
21NTO311T	Nanomaterials in Cosmetics and Cosmeceuticals	3	0	0	3	
21NTO312T	Societal Implications of Nanotechnology	3	0	0	3	
21NTO313T	Nanotechnology in Food Science and Packaging	3	0	0	3	
21PYO301T	Astrophysics	3	0	0	3	
21PYO302T	Photonics	3	0	0	3	
21PYO303T	Quantum Optics	3	0	0	3	
21NTO401T	Scientific Research Principles	3	0	0	3	
21NTO402T	Micro and Nanofluidic Technology	3	0	0	3	
21NTO403T	Thin film Photovoltaics	3	0	0	3	
21NTO404T	Nanotechnology in Societal Development	3	0	0	3	
21NTO405T	Polymer Engineering	3	0	0	3	
21NTO406T	Industrial Nanotechnology	3	0	0	3	
21NTO407T	Quantum Computing	3	0	0	3	
Total Credits						09

Engineering Science Courses (S)					
Course Code	Course Title	Hours / Week			
		L	T	P	
21MES102L ¹	Engineering Graphics and Design	0	0	4	2
21MES101L ¹	Basic Civil and Mechanical Workshop	0	0	4	2
21EES101T	Electrical and Electronics Engineering	3	1	0	4
21CSS101J	Programming for Problem Solving	3	0	2	4
21DCS201P ¹	Design Thinking and Methodology	1	2	0	3
21NTS201T	Materials Science	3	0	0	3
21CSS303T	Data Science	2	0	0	2
Total Credits					20

Project Work, Seminar, Internship in Industry / Higher Technical Institutions (P)					
Course Code	Course Title	Hours / Week			
		L	T	P	
21GNP301L ¹	Community Connect	0	0	2	1
21NTP302L ¹	Project	0	0	6	3
21NTP303T ¹	MOOC	3	0	0	
21NTP401L	Major Project	0	0	30	15
21NTP402L	Major Project	0	0	20	10
21NTP403L	Internship#	0	0	10	5
Total Credits					19

47. (f) Programme Articulation: B.Tech. in Nanotechnology

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
21NTC101T	Nanoscience and Nanotechnology	2.3	2	2.6	3	3	-	-	-	-	-	-	-	2.75	2	-
21NTC201J	Nanoscale materials chemistry	3	1.75	2	-	-	-	-	-	-	-	-	-	2.75	2	-
21NTC202T	Quantum Mechanics for Nanotechnologists	2.5	-	-	2.8	-	-	-	-	-	-	-	-	2.7	2.5	-
21NTC203T	Thermodynamics and Statistical Mechanics	3	3	-	3	-	-	-	-	-	-	-	-	2.5	2.3	-
21NTS201T	Materials Science	3	3	3	3	3	-	-	-	-	-	-	2	3	3	3
21NTC204J	Advanced Characterization of Nanomaterials	3	-	3	2.7	-	-	-	-	-	-	-	-	3	2.5	2
21NTC205T	Design and Synthesis of Nanomaterials	3	-	2.7	2.5	3	-	2	-	-	-	-	-	2.5	2	2
21NTC206T	Solid State Engineering	3	-	2.7	2.5	3	-	2	-	-	-	-	-	2.5	2	2
21NTC301J	Micro and Nanofabrication	2.5	3	2	2.3	2.4	-	2	-	-	-	-	-	2.5	3	2
21NTC302J	Nanoelectronics	2.8	3	2	2.5	3	-	2	-	-	-	-	-	2.5	2.5	2
21NTC303T	Nanobiotechnology	3	-	-	-	-	-	-	-	-	-	-	-	2.5	2	2
21NTC304T	Nanotoxicology	3	-	-	-	-	-	-	-	-	-	-	-	3	2.7	2
21NTC305L	Nanobiotechnology and Nanotoxicology laboratory	-	-	-	3	-	-	-	-	-	-	-	-	3	2	2
21GNP301L	Community Connect	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3
21NTP302L/ 21NTP303T	Project / MOOC	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
21NTC401J	Polymer and Nanocomposites	3	2.5	2.5	2	1.5	-	-	-	-	-	-	-	3	2	2
21NTC402T	Modeling and Computational Tools	3	3	3	3	3	-	-	-	-	-	-	-	3	2	2
21NTP401L	Major Project	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
21NTP403L	Internship	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
21NTE201T	Carbon Nanotechnology	2.4	2	2	2	-	-	-	-	-	-	-	-	3	2	2
21NTE202P	Vacuum and Thin film technology	2.5	-	3	2.5	-	-	-	-	-	-	-	-	3	2	-
21NTE203T	Nanotribology	2.7	-	1.7	2.5	2	-	-	-	-	-	-	-	3	3	3
21NTE204T	Surfaces and Interfaces	2.6	-	2	2	-	-	-	-	-	-	-	-	3	2	2
21NTE301T	Spectroscopy tools for nanoscale analysis	3	3	-	3	-	-	-	-	-	-	-	-	3	3	2
21NTE302P	Lithography Techniques and Fabrication	2.5	2	2	-	-	-	-	-	-	-	-	-	2.3	2	-
21NTE303T	Sensors and Transducers	2	-	2.5	2.6	-	-	-	-	-	-	-	-	3	3	-
21NTE304T	Green Nanotechnology	2.3	3	2.3	3	2	-	-	-	-	-	-	-	2	2	2
21NTE305T	Nanomagnetism and Spintronics	3	3	-	3	-	-	-	-	-	-	-	-	3	2	2
21NTE306T	2D layered Nanomaterials	2.3	-	2	3	-	-	-	-	-	-	-	-	3	2.7	3
21NTE307T	Nanocatalysts	2.5	2.3	1	3	-	-	3	-	-	-	-	-	3	3	-
21NTE308T	MEMS and NEMS	3	3	3	-	-	-	-	-	-	-	-	-	2.7	2.5	-
21NTE309T	Solid State Devices	3	2	3	2	-	-	-	-	-	-	-	-	2.5	2	-
21NTE310T	Nanotechnology in Cosmetics	3	-	2.5	2	2	-	-	-	-	-	-	-	3	2	2
21NTE311T	Nanomedicine	3	-	-	-	-	-	-	-	-	-	-	-	2	2	-
21NTE312T	Microelectronics and VLSI	2.7	-	-	2.7	-	-	-	-	-	-	-	-	3	3	-
21NTE313T	Nanotechnology for Energy Systems	2.7	-	2	-	-	-	-	-	-	-	-	-	3	2.5	-
21NTE314T	Physics of Electronic Materials	2.6	2	3	2.3	-	-	-	-	-	-	-	-	2.5	2.7	-
21NTE315T	Nanotechnology in food production	2.4	-	2.8	-	-	-	-	-	-	-	-	-	-	3	-
21NTE316T	Advanced Drug Delivery Systems	3	-	1.3	-	-	-	-	-	-	-	-	-	2.5	2	2
21NTE317T	Societal Implications of Nanotechnology	2.8	-	-	-	-	-	-	2.4	-	-	-	-	3	2	-
21NTE401T	Nanotechnology in Tissue Engineering	3	-	-	-	-	-	-	-	-	-	-	-	3	2	-
21NTE402T	Micro and Nanofluidics	2.8	2.4	-	-	-	-	-	-	-	-	-	-	2	2	2
21NTE403T	Nanorobotics	2	-	2.7	2.25	-	-	-	-	-	-	-	-	-	2	2
21NTE404T	Photovoltaic Technology	2.8	2	3	2.3	-	-	-	-	-	-	-	-	3	3	2
21NTE405T	Advanced computational Techniques	3	3	3	3	-	-	-	-	-	-	-	-	2.5	3	2
21NTE406T	Nanotechnology Legal Aspects	2.2	-	-	-	-	2	2.6	2.4	-	-	-	-	-	-	3
21NTE407T	Micro and Nano Emulsions	3	-	2	2	-	-	-	-	-	-	-	-	3	2	2
21NTE408T	Supramolecular Systems	2.5	2.5	2.7	2	1	-	-	-	-	-	-	-	2	-	2
21NTE409T	Cancer Nanotechnology	3	-	-	-	-	-	-	-	-	-	-	-	2.7	-	1.5
21NTE410T	Atomistic modeling	3	3	3	3	2	-	-	-	-	-	-	-	3	2	-
21NTE411T	Nanotechnology in Textiles	3	3	2	2.3	2	3	-	-	-	-	-	-	-	-	-
21NTE412T	Nanophononics	2.8	2.2	-	2.7	-	-	-	-	-	-	-	-	2.5	2.5	2
Program Average			2.8	2.6	2.5	2.6	2.5	2.8	2.6	2.8	3	3	3	3	2.7	2.4

47. (g) Implementation Plan: B.Tech. in Nanotechnology

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 - III						
Course Code	Course Title	Hours / Week				
		L	T	P	C	
21MAB201T	Transforms and Boundary Value Problems	3	1	0	4	
21NTC201J	Nanoscale Materials Chemistry	3	0	2	4	
21NTC202T	Quantum Mechanics for Nanotechnologists	3	0	0	3	
21NTC203T ²	Thermodynamics and Statistical Mechanics	3	0	0	3	
21PDH209T ¹	Social Engineering	2	0	0	2	
21NTS201T	Materials Science	3	0	0	3	
21LEM201T ¹	Professional Ethics	1	0	0	0	
21PDM201L ¹	Verbal Reasoning	0	0	2	0	
21LEM202T ¹	Universal Human Values-II: Understanding Harmony and Ethical Human Conduct	2	1	0	3	
Total Credits 22						

Semester - V						
Course Code	Course Title	Hours / Week				
		L	T	P	C	
21MAB301T	Probability and Statistics	3	1	0	4	
21NTC301J	Micro and Nanofabrication	3	0	2	4	
21NTC302J	Nanoelectronics	2	0	2	3	
21NTC303T ²	Nanobiotechnology	3	0	0	3	
E-1	Professional Elective - II	3	0	0	3	
O	Open Elective – I	3	0	0	3	
21PDM301L ¹	Analytical and Logical Thinking Skills	0	0	2	0	
21LEM301T ¹	Indian Art Form	1	0	0	0	
21GNP301L ¹	Community Connect	0	0	2	1	
Total Credits 21						

Semester - VII						
Course Code	Course Title	Hours / Week				
		L	T	P	C	
21GNH401T	Behavioural Psychology	2	1	0	3	
E-4	Professional Elective – V	3	0	0	3	
E-5	Professional Elective - VI	3	0	0	3	
21NTC401J ²	Polymer and Nanocomposites	2	0	2	3	
21NTC402T	Modeling and Computational Tools	3	0	0	3	
O	Open Elective – III	3	0	0	3	
Total Credits 18						

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	
21NTC101T	Nanoscience and Nanotechnology	3	0	0	3	
21BTB103T	Biology	2	0	0	2	
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 - IV						
Course Code	Course Title	Hours / Week				
		L	T	P	C	
21MAB202T	Numerical Methods	3	1	0	4	
21CSC206T	Artificial Intelligence	2	1	0	3	
21NTC204J	Advanced Characterization of Nanomaterials	3	0	2	4	
21NTC205T	Design and Synthesis of nanomaterials	3	1	0	4	
21DCS201P ¹	Design Thinking and Methodology	1	2	0	3	
E	Professional Elective – I				3	
21NTC206T ²	Solid State Engineering	3	0	0	3	
21PDM202L ¹	Critical and Creative Thinking Skills	0	0	2	0	
Total Credits 24						

Semester - VI						
Course Code	Course Title	Hours / Week				
		L	T	P	C	
21CSS303T	Data Science	2	0	0	2	
21NTC304T ²	Nanotoxicology	3	0	0	3	
21NTC305L ¹	Nanobiotechnology and Nanotoxicology Laboratory	0	0	6	3	
E-2	Professional Elective – III	3	0	0	3	
E-3	Professional Elective - IV	3	0	0	3	
21NTP302L ¹	Project	0	0	6	3	
21NTP303T ¹	MOOC	3	0	0		
O	Open Elective – II	3	0	0	3	
21PDM302L ¹	Employability Skills and Practices	0	0	2	0	
21LEM302T ¹	Indian Traditional Knowledge	1	0	0	0	
Total Credits 20						

Semester - VIII						
Course Code	Course Title	Hours / Week				
		L	T	P	C	
21NTP401L	Major Project	0	0	30	15	
21NTP402L	Major Project	0	0	20	10	
21NTP403L	Internship#	0	0	10	5	
Total Credits 15						

#Students have to register either 21NTP401L or 21NTP402L and 21NTP403L both in eighth semester



SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

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

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