

Department of Information Technology
SCHOOL OF COMPUTER SCIENCE AND INFORMATICS
SREENIDHI INSTITUTE OF SCIENCE AND TECHNOLOGY

M. Tech (Computer Networks and Information Security)
Course Structure and Syllabus

I Year - I Semester

Code	Subject	L	T	P	C	Max. Marks		Total
						Internal	External	
5R101	Data Structures and Algorithms	3	1	-	3	25	75	100
5R102	Network Programming	3	1	-	3	25	75	100
5P112	Advanced Computer Networks	3	1	-	3	25	75	100
5R103	Principles of Information Security	3	1	-	3	25	75	100
	Professional Elective – I	3	1	-	3	25	75	100
	Professional Elective – II	3	1	-	3	25	75	100
5R171	Network Programming Lab	-	-	4	2	25	75	100
5P118	Research Methodology	2	-	-	2	25	75	100
5R172	Literature Review and Seminar – I	-	-	3	1	100	--	100
5R173	Comprehensive Viva Voce - I	-	-	-	1	100	--	100
	Total Credits	20	06	07	24	400	600	1000

Professional Elective – I		Professional Elective – II	
Code	Subject	Code	Subject
5R104	Software Engineering	5R107	Image Processing & Pattern Recognition
5P110	Information Retrieval Systems	5PC22	Data Warehousing and Data Mining
5R105	Web Services and Service Oriented Architecture	5R109	Database Security
5R106	Computer Forensics	5PC14	Semantic Web and Social Networks

I Year - II Semester

Code	Subject	L	T	P	C	Max. Marks		Total
						Internal	External	
5R210	Wireless Networks and Mobile Computing	3	1	-	3	25	75	100
5R211	Application of Network Security	3	1	-	3	25	75	100
5R212	Web Technologies	3	1	-	3	25	75	100
5R213	Information Security, Management and Standards	3	1	-	3	25	75	100
	Professional Elective – III	3	1	-	3	25	75	100
	Open Elective	3	1	-	3	25	75	100
5R274	Web Technologies and Network Security Lab	-	-	4	2	25	75	100
5R275	Literature Review & Seminar - II	-	-	3	1	100	--	100
5R276	Project Seminar – I (Abstract)	-	-	3	2	100	---	100
5R277	Comprehensive Viva Voce - II	-	-	-	1	100	---	100
	Total Credits	18	6	10	24	475	525	1000

Professional Elective – III		Open Elective	
Code	Subject	Code	Subject
5R214	Web Security and Ethical Hacking	5ZC13	Entrepreneurship and Innovation
5PC06	Cloud Computing	5ZC03	Banking, Operations, Insurance and Risk Management
5R215	Wireless Security	5QC33	Intellectual Property Rights
5RC16	Big Data Analytics	5T217	Embedded Systems
5QC47	Bio Informatics	5H233	Ethics, Morals, Gender Sensitization and Yoga

II Year – I Semester

Code	Subject	L	P	C	Max. Marks		Total
					Internal	External	
5R378	Project Seminar II (Design and Development)	-	-	4	100	---	100
5R379	Project Work (Part – I) (Project Status Report) (Excellent/ Good/ Satisfactory/ Unsatisfactory)	-	-	20	Grading	--	--
	Total Credits	-	-	24	100	100	100

II Year – II Semester

Code	Subject	L	P	C	Max. Marks		Total
					Internal	External	
5R480	Project Seminar-III (Execution)	-	-	2	100	--	100
5R481	Pre-Project Submission Seminar (Final)	-	-	2	100	--	100
5R482	Project Work & Dissertation (Excellent/Good/Satisfactory/Unsatisfactory)	-	-	20	--	Grading	--
	Total Credits	-	-	24	200	--	200