

Approved Course Structure

Program: M.Tech.- Computer Networks and Information Security

Regulations: SVEC-19

I - Semester

Sl. No.	Course Code	Course Title	Contact Hours per week				Credits C	Scheme of Examinations Max. Marks		
			L	T	P	Total		Internal Marks	External Marks	Total Marks
1.	19MT10501	Advanced Algorithms	3	-	-	3	3	40	60	100
2.	19MT10502	Advanced Data Structures	3	-	-	3	3	40	60	100
3.	19MT10503	Mathematical Foundations of Computer Science	3	-	-	3	3	40	60	100
		Program Elective -1								
4.	19MT10504	Artificial Intelligence	3	-	-	3	3	40	60	100
	19MT10505	Data Warehousing and Data Mining								
	19MT16301	Advanced Computer Networks								
	19MT16302	Network Intrusion Detection Systems								
		Program Elective -2								
5.	19MT10509	Machine Learning	3	-	-	3	3	40	60	100
	19MT16303	Cloud Computing								
	19MT16304	Digital Forensics								
	19MT16305	Malware and Risk Analysis								
6.	19MT10708	Research Methodology and IPR	2	-	-	2	2	40	60	100
7.	19MT10531	Advanced Algorithms Lab	-	-	4	4	2	50	50	100
8.	19MT10532	Advanced Data Structures Lab	-	-	4	4	2	50	50	100
Total			17	-	8	25	21	340	460	800
9.	19MT1AC01	Technical Report Writing	2	-	-	2	-	-	-	-

II - Semester


Sl. No.	Course Code	Course Title	Contact Hours per week				Credits C	Scheme of Examinations Max. Marks		
			L	T	P	Total		Internal Marks	External Marks	Total Marks
1.	19MT26301	Cryptography and Network Security	3	-	-	3	3	40	60	100
2.	19MT26302	Wireless Sensor Networks	3	-	-	3	3	40	60	100
Program Elective - 3										
3.	19MT20503	Artificial Neural Networks and Deep Learning	3	-	-	3	3	40	60	100
	19MT26303	Database Security								
	19MT26304	GPU Computing								
	19MT26305	Internet of Things								
Program Elective - 4										
4.	19MT20508	Soft Computing	3	-	-	3	3	40	60	100
	19MT26306	Blockchain Technologies								
	19MT26307	Secure Software Design and Enterprise Computing								
	19MT26308	Software Defined Networks								
5.	19MT2MOOC	Open Elective (MOOC)	-	-	-	-	3	-	100	100
6.	19MT26331	Cryptography and Network Security Lab	-	-	4	4	2	50	50	100
7.	19MT26332	Wireless Sensor Networks Lab	-	-	4	4	2	50	50	100
Total			12	-	8	20	19	260	440	700
8.	19MT2AC01	Statistics with R	2	-	-	2	-	-	-	-

III - Semester

Sl. No.	Course Code	Course Title	Contact Hours per week				Credits C	Scheme of Examinations Max. Marks		
			L	T	P	Total		Internal Marks	External Marks	Total Marks
1.	19MT36331	Internship	-	-	-	-	2	-	100	100
2.	19MT36332	Project Work Phase-I	-	-	-	-	10	50	50	100
Total			-	-	-	-	12	50	150	200

IV - Semester

Sl. No.	Course Code	Course Title	Contact Hours per week				Credits C	Scheme of Examinations Max. Marks		
			L	T	P	Total		Internal Marks	External Marks	Total Marks
1.	19MT46331	Project Work Phase-II	-	-	-	-	16	150	150	300
Total			-	-	-	-	16	150	150	300
Total Credits							68			
Grand Total Marks										2000


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