

Master of Technology (M.Tech) in Computer Science & Engineering with specialization in Cyber Security Engineering

			Credits	Credit Split Lecture/Lab/Seminar/Project
S1 (University Core)	Digital Access Community Empowerment	One week	3	0-0-0-3
	Digital Experience Laboratory	Full semester (hands-on lab)	3	0-4-0-0
	Design Thinking and Innovation	Full semester	4	3 (Lecture and case study)
Total Credits			10 credits	

		Credits	Credit Split Lecture/Lab/Seminar/Project	Level
S1(Core)	AI & Machine Learning	4	3-1-0-0	300
	Mathematical Foundations of Computer Science	4	3-0-1-0	300
	Data Structures and Algorithms	4	3-1-0-0	300
	Advanced Distributed Systems	4	3-1-0-0	300
S1(Electives) One Elective	Group A			
	Cryptographic Engineering	4	3-1-0-0	300
	Security Auditing, Forensics and Risk Management	4	3-1-0-0	300
	Security in Digital Transformation	4	3-0-0-1	300
	Secure Software Engineering	4	3-1-0-0	300
	Quantum Computing & Cryptography	4	3-0-0-1	300
	Soft Computing	4	3-0-0-1	300
	Natural Language Processing	4	3-0-0-1	300
S1 Total Credits(minimum)		20		
S2(Core)	Data & Intelligence	4	3-1-0-0	300
S2(Electives) 4 Electives At least two electives need to be selected from Group A	Group A			
	Network and System Security	4	3-1-0-0	300
	Hardware Security	4	3-1-0-0	300
	Ethical Hacking and Network Defense	4	3-1-0-0	300
	IoT Networks and Endpoint Security	4	2-2-0-0	300
	AI Based Cyber Attacks and Defenses	4	3-1-0-0	300
	Cyber Big Data Analytics	4	3-0-0-1	300
	Malware Analysis and Reverse Engineering	4	3-1-0-0	300
	Biometric Systems Engineering	4	3-1-0-0	300
	Advanced Topics in Cryptography	4	3-1-0-0	300
	Social Network Analytics and Security	4	3-0-0-1	300
	Cyber Crime Investigation	4	3-0-0-1	300
	Group B			
	Human Computer Interaction	4	3-0-0-1	300
	Connected Environments and Enabling Technologies	4	1-3-0-0	300
	Cloud and Edge Computing	4	3-0-0-1	300
	Deep Learning & Reinforcement Learning	4	3-0-0-1	300
	Augmented/Virtual Reality	4	3-1-0-0	300
	Industrial IoT and Digital Twins	4	3-0-0-1	300
	Cognitive Computing	4	3-0-0-1	300
Block Chain Technology	4	2-2-0-0	300	
Video Analytics	4	3-0-0-1	300	
S2 Internship	Summer Internship/Team Project	5	0-0-0-5	300
S2 Total Credits (minimum)		25		
S3	Topics in Cyber Security	20	15 (Research)	400
S3 & S4	Master Thesis	30	0-0-0-30	400
Total Credits(minimum) : 10+20+25+20+30 = 105				