SHANTABEN NAGINDAS KHANDWALA COLLEGE OF SCIENCE

Programme: Master of Science Computer Science (Specialization in Cybersecurity)
Academic year: 2025-26
Curriculum Framework of First Year under NEP

Level	Sem.	Major		Minor	OE	VSC, SEC (VSEC)	EC, VEC, IKS	OJT, FP, CEP, CC, RP	Credits	Cumulative Credits
		Mandatory	**Electives (Choose Any One)**							
I		Advanced Database Management Systems (04)	Data Security and Network Security (04) **OR** Software Security (04)	Research Methodology (04)	----	----	----	----	4+4+4+2+4+4= **22**	44
		Cybersecurity Fundamentals (04)								
		Advanced Data Structures and Algorithms (04)								
		Mathematical Foundations For Cybersecurity (02)								
II		Security and Risk Management (04)	Securing the cloud (04) **OR** Defense in depth (04)		---	---	---	Internship (04)	4+4+4+2+4+4= **22**	
		Ethical Hacking (04)								
		Cryptography and Biometrics (04)								
		Software Engineering Concepts and Methodologies (04)								
	Cum Cr.	**28**	**8**		----	----	----	**4**	**44**	

* Exit Option: Award of UG Certificate in Major with 80-88 credits and an additional 4 credits core NSQF Course/Internship or Continue with Major and Minor

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Level	Sem.	Major		Minor/ RM	OJT/ FP	RP	Credits	Cumulative Credits
		Mandatory	**Electives (Choose Anyone)**					
6.5	III	Cyber Security Incident Response Management (04) Advanced Network Security (04) Database Security (04) Research Paper Writing (02)	Cyber Crisis Management (04) **OR** Vulnerability Management (04)	-	-	Research Project (04)	4+4+4+2+4+4= **22**	88
	Credits	14	4	0	0	4	22	
	IV	Malware Analysis (04) IT Governance, Risk and Compliance (04) IPR and Cyber Laws (04)	Digital Forensics and Investigations (04) **OR** Memory Forensics (04)	-	-	Research Project (06)	4+4+4+4+6= **22**	
	Credits	12	4	0	0	6	22	
	Total credits in 2nd year	26	8	0	0	10	44	
	Cum Cr. Of 1st and 2nd year	54	16	4	4	10	88	