



SHANTABEN NAGINDAS KHANDWALA COLLEGE OF SCIENCE

Programme: Master of Science Computer Science

Academic year: 2025-26

Curriculum Framework of First Year under NEP

Level	Sem .	Major		Minor	OE	VSC, SEC (VSEC)	AEC, VEC, IKS	OJT, FP, CEP, CC, RP	Credits	Cumulative Credits
		Mandatory	Electives (Choose Any One)							
	I	Advanced Database Management Systems(04)	Python Programming (04) OR Advanced Java Programming (04)	Research Methodology (04)	----	----	----	----	4+4+4+2+ 4+4= 22	44
		Distributed Operating System(04)								
		Advanced Data Structures and Algorithms (04)								
		Mathematical foundations of Computer Science(02)								
	II	Agile Practices and DevOps (04)	Python Web Development Using Django(04) OR Version Controlling System (04)	---	---	---	Internship (04)	4+4+4+2+ 4+4= 22		
		Server Side Scripting (04)								
		Java Script Frame works(04)								
		Software Engineering Concepts and Methodologies (02)								
	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	Distributed Computing (04)	Linux Administration (04) OR Server Administration (04)	-	-	Research Project (04)	4+4+4+2+4+4 = 22	88
		Network Security and Cryptography (04)						
		Machine Vision and Image Processing (04)						
		Research Paper Writing (02)						
	Credits	14	4	0	0	4	22	
	IV	Software Project Management (04)	Containerization using Docker and Kubernetes (04) OR Information Retrieval (04)	-	-	Research Project (06)	4+4+4+4+6= 22	
		Real Time Data Processing (04)						
		Secure Coding (04)						
	Credits	12	4	0	0	6	22	
	Total credits in 2 nd year	26	8	0	0	10	44	
	Cum Cr. Of 1st and 2nd year	54	16	4	4	10	88	