

NAGINDAS KHANDWALA COLLEGE OF COMMERCE, ARTS & MANAGEMENT STUDIES

Programme: Bachelor of Science (Computer Science) Academic year: 2025-26 Curriculum Framework of First Year under NEP

Level	Sem.	Major								
		Mandatory (DSC 1 and DSC 2)	Electives	Minor	OE	VSC, SEC (VSEC)	AEC, VEC, IKS	OJT, FP, CEP, CC, RP	Credits	Cumulative Credits
4.5	Ι	Introduction to Programming Operating Systems (03+03=06)			Fundamentals of Computers and Electronics Making Effective Presentations (02+02 = 04)	F Computers VSC: Web / Hindi / Marathi / Guja F Computers Programming- I (02) Iaking I (02) VEC: Environmental Study Sec: Discrete Mathematics-I (02) Web VSC: Web Veb Programming- I (02) VEC: Environmental Study Mathematics-I (02) VEC: Ladien Knowledge Study		CC: NSS, NCC, Sports, Cultural, Yoga, Music, Performing Arts, DLLE (02)	22	44 (UG
4.5	II	Object Oriented Programming Database Management Systems – I (03+03 = 06)		Programming and Application Development in Python (02)	IT platforms, Tools and Practices Data Analysis Using Spreadsheets (02+02 = 04)	VSC: Web Programming –II (02) SEC: Discrete Mathematics- II (02)	AEC: Business Communication II / Hindi / Marathi / Gujarati / Sanskrit / French (02) VEC: Environmental Studies II (02) IKS:	CC: NSS, NCC, Sports, Cultural, Yoga, Music, Performing Arts, DLLE (02)	22	Certificate)
		12		02	08	08	10	04	44	

* Exit Option: Award of UG Certificate in Major with 40-44 credits and an additional 4 credits core NSQF Course/Internship or Continue with Major and Minor



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	Sem.	Major		Minor			AEC,	OJT, FP,		
Level		Mandatory (DSC 1 & DSC 2)	Electives		OE	VSC, SEC (VSEC)	VEC, IKS	CEP, CC, RP	Cr	Cumulative Credits
	III	Advanced Database Management System(03) Data Structures (03) Statistics (02)		Computer Networks (03) Augmented Reality & Virtual Reality(03)	 Any ONE Design Thinking Introduction to Stock Markets – Trading, Investments & Automations Personal Financial Planning Social Media Marketing Strategy 	VSC: Flutter for beginners	AEC: Hindi/ Marathi/ Gujarati (02)	FP OR CC: NSS, NCC, Sports, Cultural, Yoga, Music, Performing Arts, DLLE (02)	22	
5.0	Credits	8	8		2	2	2	2		88 (UG
5.0	IV	Core Java (03) Software Engineering (03) Research Methodology (02)		Internet of Things (03) Design and Analysis of Algorithms (03)	Any ONE1.Design Thinking2.Introduction to Stock Markets – Trading, Investments & Automations3.Personal Planning4.Social Media Marketing Strategy (NOTE: Course opted in Sem III cannot be repeated in Sem IV)	VSC: Introduction to C#.Net	AEC: Hindi/ Marathi/ Gujarati (02)	FP OR CC: NSS, NCC, Sports, Cultural, Yoga, Music, Performing Arts, DLLE (02)	22	Diploma)
	Credits	8		6	2	2	2	2		
	2 nd year	16	0	8	4	4	4	8	44	
* E * O	Cum Cr.	28		10	12	12	14	12	88	

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



Programme: Bachelor of Science (Computer Science) Academic year: 2025-26 Curriculum Framework of Third Year under NEP

Level	Sem.	Major		Minor						
		Mandatory (DSC 1, 2 & DSC 3)	Electives		OE	VSC, SEC (VSEC)	AEC, VEC, IKS	OJT, FP, CEP, CC, RP	Credit s	Cumulative Credits
5.5	V	Building Blocks of AI (04) Optimization Technique (04) Software Project Management (03)	Game Programming (04) OR Ethical Hacking (04)	Web Services (03)		VSC (02) IIT Spoken Tutorial Programme* (02)		FP/CEP/Holistic Skill Development for Career Readiness (02)	22	132
	Credits	11	4	3	0	2	0	2		(UG
	VI	Data Network Security (04) Digital Image Processing (04) Software Testing & Quality Assurance (03)	Cloud Computing (04) OR Cyber Forensics (04)	Data Science (03)				OJT/Internship/ Project Work (04)	22	Degree)
	Credits	11	4	3	0	0	0	4		
	Total credits in 3 rd year	22	8	6	0	2	0	6	44	
	Cum Cr.								132	

* Exit Option: Award of UG Degree in Major with 120-132 credits or Continue with Major and Minor

* IIT Spoken Tutorial Course will be decided by College.

[FP = Field Project; CEP = Community Engagement and Service; OJT = On Job Training – Internship/Apprenticeship]