

NAGINDAS KHANDWALA COLLEGE OF COMMERCE, ARTS & MANAGEMENT STUDIES

Programme: Bachelor of Science (Information Technology)

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 (DSC 1 and DSC 2)	Electives							
4.5	I	Introduction to Programming Operating Systems (03+03 = 06)	---	---	Fundamentals of Computers and Electronics Making Effective Presentations (02+02 = 04)	VSC: Web Programming-I (02) SEC: Discrete Mathematics-I (02)	AEC: Business Communication I / Hindi / Marathi / Gujarati / Sanskrit / French (02) VEC: Environmental Studies I (02) IKS: Indian Knowledge System (02)	CC: NSS, NCC, Sports, Cultural, Yoga, Music, Performing Arts, DLLE (02)	22	44 (UG Certificate)
	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	
		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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Level	Sem.	Major		Minor	OE	VSC, SEC (VSEC)	AEC, VEC, IKS	OJT, FP, CEP, CC, RP	Cr	Cumulative Credits
		Mandatory (DSC 1 & DSC 2)	Electives							
5.0	III	Advanced Database Management System(03) Data Structures (03) Computer Oriented Statistical Techniques (02)		Computer Networks (03) Embedded Systems(03)	Any ONE 1. Design Thinking 2. Introduction to Stock Markets – Trading, Investments & Automations 3. Personal Financial Planning 4. 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	88 (UG Diploma)
	Credits	8		6	2	2	2	2		
	IV	Core Java (03) Software Engineering (03) Operations Research(02)		Linux Programming (03) Design and Analysis of Algorithms (03)	Any ONE 1. Design Thinking 2. Introduction to Stock Markets – Trading, Investments & Automations 3. Personal Financial Planning 4. 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	
	Credits	8		6	2	2	2	2		
	2 nd year	16	0	8	4	4	4	8	44	
	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

Level	Sem.	Major		Minor	OE	VSC, SEC (VSEC)	AEC, VEC, IKS	OJT, FP, CEP, CC, RP	Credits	Cumulative Credits
		Mandatory (DSC 1, 2 & DSC 3)	Electives							
5.5	V	Artificial Intelligence (04) Data Warehousing and Mining (04) Software Project Management (03)	Advanced Web Development Technologies (04) OR Advance Java (04)	Foundation of Cloud Computing (03)	----	VSC (02) IIT Spoken Tutorial Programme* (02)	----	FP/CEP/Holistic Skill Development for Career Readiness (02)	22	132 (UG Degree)
	Credits	11	4	3	0	2	0	2		
	VI	Information Security Management (04) Business Intelligence (04) Software Testing and Quality Assurance (03)	Geographic Information System (04) OR Emerging Technologies (04)	Remote Sensing (03)	----	----	----	OJT/Internship/Project Work (04)	22	
	Credits	11	4	3	0	0	0	4		
	Total credits in 3rd 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]