SHANTABEN NAGINDAS KHANDWALA COLLEGE OF SCIENCE

Programme: B.Sc. (Honours) in Computer Science (Data 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 (DSC 1 & DSC 2)	Electives							
4.5	I	Problem Solving using Programming (03) Computer Fundamentals (03)	----	------	Any ONE Open Elective I (02) 1.Principles of management 2.Basics of accounting Any ONE Open Elective II (02) 1.Introduction to Entrepreneurship 2.Necessary statics	Mathematics-I (VEC) (02) Coding and Computational Thinking-I (SEC) (02)	English – I (AEC) (02) Environmental Science-I (VEC) (02) Indian Knowledge System (IKS) (02)	NSS, Yoga, Cultural, Sports, Music, Performing Arts, DLLE (CC) (02)	22	44
	Credits	6	0	0	4	4	6	2		
	II	Data Structures and Algorithms (03) Database Management Systems (03)	----	Foundations of Data Science (02)	Any ONE Open Elective III (02) 1.Digital Marketing 2. Human Resource Management Any ONE Open Elective IV (02) 1.Principles of Banking 2.Production and Operations management	Mathematics – II (VEC) (02) Coding and Computational Thinking-II (SEC) (02)	English – II (AEC) (02) Environmental Science-II (VEC) (02)	NSS, Yoga, Cultural, Sports, Music, Performing Arts, DLLE (CC) (02)	22	
	Credits	6	0	2	4	4	4	2		
	Total credits in 1st year	12	0	2	8	8	10	4	44	
	Cum Cr.	12	0	2	8	8	10	4	44	

* Exit Option: Award of UG Degree in Major with 120-132 credits or Continue with Major and Minor
[FP = Field Project; CEP = Community Engagement and Service; OJT = On Job Training – Internship/Apprenticeship