



TECNIA INSTITUTE OF ADVANCED STUDIES

NAAC GRADE "A" INSTITUTE (CYCLE-1)

Approved by AICTE, Ministry of Education Govt. of India,
Affiliated to G.G.S.I.P. University & Recognized Under Sec. 2(f) of UGC Act 1956.

INSTITUTIONAL AREA, MADHUBAN CHOWK, ROHINI, DELHI-110085

Department of Information, Communication & Technology

Bachelor of Computer Applications (BCA) 4Yrs.

Scheme and Syllabus (w.e.f. Academic Session 2024-25)

As per UGC Curriculum & Credit Framework for Undergraduate Programme (CCFUP) (Dec 2022): GGSIP University, Delhi

COs - POs MAPPING (Semester-Wise)

FIRST SEMESTER

C.CODE	COURSE	NEP CT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
BCA 101T	Programming for Problem Solving using C	CCT	✓	✓	✓	✓		✓	✓			✓
BCA 103T	Fundamental of Information Technology	CCT	✓	✓	✓	✓		✓	✓			✓
BCA 105T#	Web Technologies#	CCT	✓	✓	✓	✓	✓	✓	✓			✓
BCA 107T	Mathematical Foundation for Computer Science	CCT		✓	✓	✓		✓	✓			
BCA 101P	Programming for Problem Solving using C Lab	CCP	✓	✓	✓	✓	✓					
BCA 103P	Fundamental of Information Technology Lab	CCP	✓	✓								
BCA 141T	Writing Skills	AEC		✓		✓	✓	✓	✓	✓	✓	✓
BCA 105P#	Web Technologies Lab	SEC										
BCA 191T*	Understanding India*(NUES)	VAC			✓			✓		✓	✓	
BCA 181T+	Bridge Course in Mathematics+(NUES)	BC		✓		✓	✓	✓	✓	✓	✓	✓

SECOND SEMESTER

C.CODE	COURSE	NEP CT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
BCA 102T#	Database Management System	CCT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BCA 104T	Object Oriented Programming using Java	CCT	✓	✓	✓	✓		✓	✓			✓
BCA 106T	Data Structures and algorithms	CCT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BCA 108T	Software Engineering	CCT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BCA 102P#	Database Management System Lab	CCP			✓	✓	✓					
BCA 104P	Object Oriented Programming using Java Lab	CCP			✓	✓	✓	✓				
BCA 106P	Data Structures and algorithms Lab	CCP	✓	✓	✓	✓	✓					
BCA 108P	Software Engineering Lab	CCP			✓	✓						
BCA 142T	Soft Skills	AEC		✓		✓	✓	✓	✓	✓	✓	✓
BCA 192T	Environment Studies	VAC			✓	✓	✓	✓		✓	✓	✓

The whole syllabus is divided into following types:

ABBR.	NEP Course Type	ABBR.	NEP Course Type
CCT	Core Courses Theory	GE	Multidisciplinary(Generic Ele)
CCP	Core Courses Practical	PCE	Programme Core Elective
AEC	Ability Enhancement Courses	SI	Summer Internship
SEC	Skill Enhancement Courses	MOOCs	MOOC Courses
VA	Value Added Courses	PRJ	Minor/ Major Project
NUES	Non Univ. Exam. System	IIR	Industry Internship Report
BC	Bridge Course	DSEC	Discipline Specific Electives

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