

**TECNIA INSTITUTE OF ADVANCED STUDIES**  
 Grade 'A' Institute  
**Department of Information, Communication & Technology**  
**Bachelor of Computer Applications (BCA)**  
 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

**COURSE CODE: BCA 101T**

**COURSE NAME: PROGRAMMING FOR PROBLEM SOLVING USING C**

**LEARNING OBJECTIVES:**

This course will provide the learners the following:-

1. Understanding of the syntax and the semantics of C programming language
2. Building of their logics for solving a given problem.

**PRE-REQUISITES: None**

**COURSEOUTCOMES (COS):**

After completion of this course, the learners will be able to:-

CO #	Detailed Statement of the CO
CO1	Develop programming skills by learning the fundamentals of structured programming using C Language.
CO2	Design and develop programs using arrays, storage classes, functions and to understand memory management through pointers
CO3	Critically analyze real world problems using structures, unions and develop applications for handling text and binary files.
CO4	Explore the use of command line arguments, string manipulation and standard libraries.

Course Outcomes	Program Outcomes (Scale – 1: Very Low, 2: Low,3:Medium,4:High)									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	4	4	4	2	-	2	1	-	-	2
CO2	4	4	4	2	-	2	1	-	-	2
CO3	4	4	4	2	-	2	1	-	-	2
CO4	4	4	4	2	-	2	1	-	-	2