

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 104P

COURSE NAME: OBJECT ORIENTED PROGRAMMING USING JAVA

LEARNING OBJECTIVES:

1. In this course, the learners will be able to develop expertise related to:
2. Basic understanding of Object-Oriented Programming Concepts and create classes.
3. Learn Inheritance, exception handling in Java.
4. Understand and implement multithreading programming.
5. Learn building GUI applications using various controls in Swings.

PRE-REQUISITES:

Prior knowledge of programming language is mandatory.

COURSE OUTCOMES (COs):

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

CO #	Detailed Statement of the CO	BT Level	Mapping to PO #
CO1	Illustrate the Object-Oriented paradigm and Java language constructs	BT2	PO3
CO2	To inculcate concepts of inheritance to create new classes from existing ones and design the Classes needed given a problem specification.	BT3	PO3
CO3	To apply various functions of String class	BT3	PO4
CO4	To facilitate students in handling exceptions and defining their own exceptions.	BT4	PO4
CO5	To manage input output using console and files	BT4	PO4
CO6	To apply the Java Thread model to develop multithreading applications.	BT5	PO4
CO7	To understand and apply the concepts of GUI programming using swings.	BT6	PO5,PO6