

**TECNIA INSTITUTE OF ADVANCED STUDIES**  
Grade 'A' Institute  
**Department of Information, Communication & Technology**  
**Bachelor of Computer Applications (BCA)**  
Scheme and Syllabus (w.e.f. AS 2021-22)

**COURSE CODE: BCA 272**

**COURSE NAME: PRACTICAL – VIII JAVA LAB**

**LEARNING OBJECTIVES:**

In this course, the learners will be able to develop expertise related to:

1. Basic understanding of Object-Oriented Programming Concepts and create classes.
2. Learn Inheritance, exception handling in Java.
3. Understand and implement multithreading programming.
4. 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
CO1	Illustrate the Object-Oriented paradigm and Java language constructs
CO2	To inculcate concepts of inheritance to create new classes from existing ones and design the classes needed given a problem specification.
CO3	To apply various functions of String class
CO4	To facilitate students in handling exceptions and defining their own exceptions.
CO5	To manage input output using console and files
CO6	To apply the Java Thread model to develop multithreading applications.
CO7	To understand and apply the concepts of GUI programming using swings.