

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 373

COURSE NAME: PRACTICAL - XI CG LAB

LEARNING OBJECTIVES:

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

1. Concept of Computer graphics, the coordinate system of display devices.
2. Implementing various scan converting algorithms.
3. Methods of drawing of graphic objects on the display devices.
4. Generating complex graphic objects
5. Implementation of various 2D transformations
6. Implementing line clipping algorithms

PRE-REQUISITES:

1. Knowledge of Programming in C/C++ is preferable
2. Understanding of various functions included in graphics. header files

COURSE OUTCOMES (COs):

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

CO #	Detailed Statement of the CO
CO1	Develop basic computer generated graphic and drawing of graphic objects on 2D display Devices.
CO2	To perform various algorithms for generating objects
CO3	To implement various 2D transformation operations through matrices.
CO4	Implementation of cohen-sutherland line clipping algorithm.