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 303

COURSE NAME: COMPUTER GRAPHICS LEARNING

OBJECTIVES:
In this course, the learners will be able to develop expertise related to the following:
1. Concept of Computer graphics, types of display devices and their techniques.
2. Methods of drawing of graphic objects on the display devices.
3. Concepts of viewport, mapping of real world objects to display device, clipping
4. Knowledge of projection concepts and their types

PRE-REQUISITES:
1. Programming in C/C++

COURSE OUTCOMES (COs):

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

CO #	Detailed Statement of the CO
CO1	Develop basic knowledge of computer generated graphics, their applications, display devices and drawing of graphic objects on display devices.
CO2	To develop knowledge of various graphics 2D transformation operation, their mathematical calculations.
CO3	To learn about the surfaces and curves, properties of curves and shading of surfaces
CO4	To give basic knowledge of 3D projection and identifying hidden surfaces to be removed.