

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: BCAP 314

COURSE NAME: DEEP LEARNING WITH PYTHON LAB

LEARNING OBJECTIVES:

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

1. To present the mathematical, statistical and computational challenges of building neural networks
2. To study the concepts of deep learning and important deep learning techniques
3. To introduce important Deep Learning architectures
4. To enable the students to apply deep learning techniques to support real-life applications

PRE-REQUISITES:

Basics of Python Programming

COURSE OUTCOMES (COs):

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

CO#	Detailed Statement of the CO
CO1	Understand the basic concepts of Deep Learning and differentiate between shallow learning and deep learning.
CO2	Implement various Deep Learning Models.
CO3	Understand different Deep Learning architectures and training algorithms.
CO4	Understanding Dimensionality Reduction and optimization in Deep Learning.
CO5	Understanding and implementing Recurrent Neural Network (RNN). ²⁷
CO6	Applying Deep Learning techniques in real life applications such as object detection and analysis.