

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 108P

COURSE NAME: SOFTWARE ENGINEERING

LEARNING OBJECTIVES:

Students will be capable to acquire the generic software development skill through various stages of software life cycle. Students will also be able to ensure the quality of software through software development with various protocol based environment. After completion of course student will be able to prepare SRS, analysis the requirement, design the requirements and generate test cases to test the project. Students will also be able to handle software development models through rational method. Rational Rose Enterprise Edition software is used to serve the objectives.

PRE-REQUISITES: NONE

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	To apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment.	BT2	PO3
CO2	Demonstrate an understanding of and apply current theories, models, and techniques that provide a basis for the software lifecycle.	BT3	PO3
CO3	Analyzing and developing a software product along with its complete documentation.	BT3	PO4
CO4	Work as an individual and as part of a multidisciplinary team to develop and deliver quality software in one or more significant application domains.	BT4	PO4
CO5	Demonstrate an ability to use the techniques and tools necessary for engineering practice	BT4	PO4