

# TECNIA INSTITUTE OF ADVANCED STUDIES

Grade 'A' Institute

Department of Information, Communication & Technology

## Master Of Computer Applications (MCA)

Scheme and Syllabus (w.e.f. Academic Session 2020-21 onwards)

Course Code: MCA-243

Course Name: Software Quality Management

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### LEARNING OBJECTIVES

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

1. Concept of Lexical Analyzer and working of Lex tool.
2. Concept of Syntactical Analyzer and working of YACC tool.
3. Code generation and Code Optimization.
4. Algorithms and data structures.
5. Compiler and cross-compiler.

### PRE-REQUISITES

1. Programming Language
2. Theory of Computation

### 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	Recall different language translation tools.	BTL1	PO1
CO2	Explain the importance of code optimization.	BTL2	PO1, PO2
CO3	Identify compiler generation tools and techniques.	BTL3	PO1, PO2, PO3, PO5
CO4	Construct compiler and its applications.	BTL3	PO1, PO2, PO3, PO4, PO5, PO6, PO10
CO5	Design a compiler for a simple programming language.	BTL6	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO10, PO11