

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-165

Course Name: Database Management Systems Lab

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LEARNING OBJECTIVES:

In this course, the learners will be able to develop the working expertise of the following:

1. Working expertise of DDL and DML commands with their application on solving real time problems.
2. Ability to apply filters using where clause and nested queries, integrity constraints at table level and column level and to use built-in functions including numeric, character and date functions.
3. Adequate knowledge to fetch data from multiple tables using different types of JOIN operations.
4. Knowledge of the generic structure of PL/SQL programs based on different PL/SQL control structures - Triggers, Cursors, Functions & Procedures and to apply transaction management concepts using Save point, Rollback and Commit statements.

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	Translate an information model into a relational database schema and to implement the schema using RDBMS.	BTL2	P01, P02, P03,P05, P06
CO2	Apply advanced SQL features like views, indexes, synonyms, etc. for database management	BTL3	P01, P02, P03,P04, P05, P06
CO3	Analyze PL/SQL structures like functions, procedures, cursors and triggers for database applications.	BTL4	P01, P02,P03,P04, P05, P06
CO4	Examine database administration concepts like GRANT, REVOKE etc. through SQL commands.	BTL4	P01, P02, P03, P04, P05, P06,P07, P010
	Work in teams to design solutions for real world problems/case studies by creating efficient database schema.	BTL6	P01, P02, P03,P04, P05, P06,P07, P08, P09,P010, P011, P012