

COURSE CODE	COURSE TITLE	L	T	P	C
1151IT304	Database Management System Lab	0	0	2	1

Course Category: Program Core

A. Preamble:

This course starts from developing a simple query to notification and security level issues that involve views trigger events and reports. Also students are encouraged to do a Minor Project with the help of Visual basic and SQL on their own that tunes out them in finding various procedures that suits the need of the application.

A. Prerequisite Courses:

Sl. No	Course Code	Course Name
1	1150CS201	Problem Solving using C

B. Related Courses:

Sl. No	Course Code	Course Name
1	1156IT601	Minor Project
2	1156IT701	Major Project

B. Course Outcomes

At the end of the course, the students are able to:

CO Nos.	Course Outcomes	Level of learning domain (Based on revised Bloom's taxonomy)
CO1	Create database using DDL and retrieve data from database using DML for a given situation.	K3, S3
CO2	Experiment Nested query, Integrity Constraints and Views in database	K3, S3
CO3	Demonstrate trigger, function and procedure using PL/SQL.	K3, S3
CO4	Develop Projects using front end and back end.	K4, S3

K3-Apply, K4-Analyse, S3-Processes

C. Correlation of COs with POs :

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	H	H	H	M	H	L						
CO2	H	H	H	M	H							
CO3	L	M	H	M	H	L						
CO4	L	L	L		H		H		L	L		L

D. Course Content

LIST OF EXPERIMENTS

Cycle-1

1. DDL Commands – Table Creation, Altering the table structures, truncating a table and dropping a table.
1. DML Commands – Insert, Select Commands, update & delete Commands.
3. Creating relationship between the databases – Nested Queries & Join Queries
4. Creating a database and to set various possible constraints.
5. Views – Create a Virtual table (Views) based on the result set of an SQL statement.
6. To create PL/SQL functions and to implement the stored procedures in SQL (Function and Procedures).

Model practical Examination-I

Cycle-2

7. To study the basics of front end tools.
8. To implement the forms using front end tool and use oracle for database creation.
9. Triggers – To create a statement that executes automatically as a side effect of a modification to the DB.
10. Menu Design – To Design menus using menu editor in Visual Basic.
11. Reports – To generate data report from existing DB
12. Minor Project (Application Development using Oracle/Mysql)

Model practical Examination-II

E. Learning Resources:

i. Reference Books:

1. Database Management Systems solutions manual, Raghu Ramakrishnan, Johannes Gehrke, Jeff Derstadt, Scott Selikoff and Lin Zhu, third Edition, 2013
2. SQL with Guru99 by Krishna Rungta, Smashwords 2013
3. A Primer on SQL by Rahul Batra, dreamincode.net 2012
4. Learn SQL The Hard Way by Zed A. Shaw, LCodeTHW 2011
5. Developing Time-Oriented Database Applications in SQL, by Richard T. Snodgrass, Morgan Kaufmann 1999