

COURSE CODE	COURSE TITLE	L	T	P	C
1151CS303	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.

B. Pre-requisite:

Sl. No	Course Code	Course Name
1	1151CS102	Data Structures

C. Related Courses:

Sl. No	Course Code	Course Name
1	1156CS601	Minor Project
2	1156CS701	Major Project

D. 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	Infer database language commands to create simple database	S3
CO2	Analyze the database using queries to retrieve records	S3
CO3	Applying PL/SQL for processing database	S3
CO4	Analyze front end tools to design forms, reports and menus	S3
CO5	Develop solutions using database concepts for real time requirements.	S3

E. Correlation of COs with POs and PSOs

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	M				L			M					L	L	
CO2	M	H		M	M			M					L	L	
CO3	M				M			M	M				L	L	
CO4	M	M	L	M	M			M	M		M	M	L	H	L
CO5	M	H	L	M	H			H	H		H	M	L	H	L

F. 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

G. 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