

Branch: B.Sc.(IT)	Semester-III
Subject Code: 3201	Lecture: 02 Credit: 02
Course Opted	Core Course Practical – 7
Subject Title	DATABASE MANAGEMENT SYSTEMS – LAB

Course Objectives:

- Understand, appreciate and effectively explain the underlying concepts of database technologies

Course Outcomes:

- Design and implement a database schema for a given problem-domain
- Normalize a database
- Populate and query a database using SQL DML/DDL commands.
- Programming SQL including stored procedures, stored functions, cursors, packages.

Modules	Sr. No.	Topic and Details	No. of Lectures Assigned	Marks Weightage %
UNIT - I	1	Fundamentals of Database Management System	1	2
	2	Introduction to Oracle with SQL	1	2
UNIT - II	3	Relational Data Model	2	4
	4	E-R and EER diagrams	3	6
	5	Relational algebra operations	3	6
UNIT - III	6	Database Creation, Table Creation using SQL	2	4
	7	Data filtering, sorting and Oracle clauses	2	4
	8	DDL commands and DML commands	3	6
	9	Built-in Functions of SQL and working with integrity constraints	3	6
UNIT -IV	10	Data Aggregation Functions	2	4
	11	Extra programs	2	4
	12	Backup and Recovery Techniques	1	2
TOTAL			25	50

Text Book:

1. Korth, Silberschatz, "Database System Concepts", McGraw-Hill, 27-Jan-2010

Reference Books:

1. Elmasri and Navathe, "Fundamentals of Database Systems", McGraw-Hill, 2010
2. Ivan Bayross, "Oracle-the complete reference": BPB Publications
3. Dr. P.S.Deshpande SQL & PL/SQL for Oracle 10g Black Book
4. Gio Wiederhold, "Database Design", McGraw-Hill 1995