

Course Name: Data Base Management System Laboratory
Course Code: CS(EE)791D
Course Credit: 2
Contact Hour: 3P
Prerequisite: Computer Organization, Operating System, Data Structure, Mathematics

Course Objective:

The objectives of this course are

1. Understand values of Data.
2. Understand significant role of DBMS.
3. Understand need for normalizing a Database.
4. Understand problems with unnecessary duplication of data.
5. Understand concepts of transaction

Course Outcome:

On completion of the course students will be able to

1. SQL in details: creation tables, record handling, retrieval of data , different clause
2. Data base Management
3. Cursors in Oracle PL / SQL
4. Writing Oracle PL / SQL Stored Procedures

CO Mapping with departmental POs

H: High, M: Medium, L: Low

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	H	L	H	L	H	L	L	L	M	L	H	L
CO 2	H	L	H	L	H	L	L	L	M	L	H	L
CO 3	H	L	H	L	H	L	L	L	M	L	H	L
CO 4	H	L	H	L	H	L	L	L	M	L	H	L

Course Content

Structured Query Language

1. Creating Database

- _ Creating a Database
- _ Creating a Table
- _ Specifying Relational Data Types
- _ Specifying Constraints
- _ Creating Indexes

2. Table and Record Handling

- _ INSERT statement
- _ Using SELECT and INSERT together
- _ DELETE, UPDATE, TRUNCATE statements
- _ DROP, ALTER statements

3. Retrieving Data from a Database

- _ The SELECT statement
- _ Using the WHERE clause
- _ Using Logical Operators in the WHERE clause
- _ Using IN, BETWEEN, LIKE , ORDER BY, GROUP BY and HAVING

4. Clause

- _ Using Aggregate Functions
- _ Combining Tables Using JOINS
- _ Subqueries

5. Database Management

- _ Creating Views
- _ Creating Column Aliases
- _ Creating Database Users
- _ Using GRANT and REVOKE

Cursors in Oracle PL / SQL

Writing Oracle PL / SQL Stored Procedures

Text Books:

1. SQL, PL/SQL: The Programming Language of Oracle, Ivan Bayross, BPB Publications.

Reference Books:

1. Oracle 10G Express Edition, TMH