Department of ECM PVP12

3/4 B.Tech. FIFTH SEMESTER

EM5L2 DATABASE MANAGEMENT SYSTEMS LAB (Common to CSE/IT/ECM)

Lab/Practice: 3 periods/week Internal assessment : 25 marks
Semester end examination : 50 marks

Cousre Objectives:

- To provide hands on experience on Database Management Systems such as MSAccess,
- Microsoft SQL Server and ORACLE.
- To provide knowledge on creating databases and posing complex SQL queries of relational databases.
- To be familiar with a broad range of data management issues including data integrity and security
- To Perform stored procedures & functions
- To Setup triggers that activate to perform specific data-handling operations when they insert or update table rows.
- Develop Programs using Cursors & Packages.

Learning Outcomes:

Students will be able to

- Construct database schema using Structured Query Language which would provide functionality to create tables and to enforce constraints.
- Query and update data from tables
- Write complex queries to select a subset of the data from the collection of tables.
- Write programming blocks with conditionals, assignments, loops, etc in PL/SQL.
- Write Exception Handling, Transaction oriented programs, stored procedures, functions, packages
- Cursors and triggers in PL/SQL.

Introduction to list of experiments

- 1. Simple Queries : Create ,Insert ,Delete ,Update,Select
- 2. Built-in-functions
- 3. Group Functions
- 4. Multiple sub-queries
- 5. SQL Views & Triggers
- 6. Simple PL/SQL Procedures
- 7. PL/SQL Procedures accessing Databases

Learning resources

TEXT BOOKS:

1. **Introduction to Database Systems, 8th Edition, C.J.Date, Pearson 2006**

Credits: 2