CS407PC: DATABASE MANAGEMENT SYSTEMS LAB

B.TECH II Year II Sem. L T P C 0 0 3 1.5

Co-requisites:

• Co-requisite of course "Database Management Systems"

Course Objectives:

- Introduce ER data model, database design and normalization
- Learn SQL basics for data definition and data manipulation

Course Outcomes:

- Design database schema for a given application and apply normalization
- Acquire skills in using SQL commands for data definition and data manipulation.
- Develop solutions for database applications using procedures, cursors and triggers

LIST OF EXPERIMENTS:

- 1. Concept design with E-R Model
- 2. Relational Model
- 3. Normalization
- 4. Practicing DDL commands
- 5. Practicing DML commands
- 6. Querying (using ANY, ALL, IN, Exists, NOT EXISTS, UNION, INTERSECT, Constraints etc.)
- 7. Queries using Aggregate functions, GROUP BY, HAVING and Creation and dropping of Views.
- 8. Triggers (Creation of insert trigger, delete trigger, update trigger)
- 9. Procedures
- 10. Usage of Cursors

TEXT BOOKS:

- 1. Database Management Systems, Raghurama Krishnan, Johannes Gehrke, Tata Mc Graw Hill, 3rd Edition
- 2. Database System Concepts, Silberschatz, Korth, McGraw Hill, V edition.

REFERENCES BOOKS:

- 1. Database Systems design, Implementation, and Management, Peter Rob & Carlos Coronel 7th Edition.
- 2. Fundamentals of Database Systems, Elmasri Navrate, Pearson Education
- 3. Introduction to Database Systems, C.J. Date, Pearson Education
- 4. Oracle for Professionals, The X Team, S. Shah and V. Shah, SPD.
- 5. Database Systems Using Oracle: A Simplified guide to SQL and PL/SQL, Shah, PHI.
- 6. Fundamentals of Database Management Systems, M. L. Gillenson, Wiley Student Edition.