Course Code	:	**CSLR51**
Course Title	:	**Database Management Systems Laboratory**
Number of Credits	:	**0-0-3-2**
Pre-requisites (Course Code)	:	**-**
Course Type	:	**PL**

Course Objectives

- To explore the features of a Database Management Systems
- To interface a database with front end tools
- To understand the internals of a database system
- To identify Structure Query Language statements used in creation and manipulation of Database
- To identify the methodology of conceptual modeling through Entity Relationship model

Exercises

1. Working with DDL, DML and DCL.
2. Inbuilt functions in RDBMS.
3. Nested Queries & Join Queries.
4. Set operators & Views in SQL.
5. Control structures.
6. Working with Procedures and Functions.
7. Triggers.
8. Dynamic & Embedded SQL.
9. Working with XML.
10. Forms & Reports.
11. Database Design and implementation (Mini Project).

Course Outcomes

Upon completion of this course, the students will be able to:

- Identify Structure Query Language statements used in creation and manipulation of Database
- Use databases for building client server applications
- Comprehend the internal working of a database system
- Design and develop a database using SQL and the mechanism in connecting with a Web based GUI
- Analyze and design a real database application

Text Books

1. Silberschatz, Henry F. Korth, S. Sudharshan, “Database System Concepts”, Fifth Edition, Tata McGraw Hill, 2006.
2. C. J. Date, A. Kannan, S. Swamynathan, “An Introduction to Database Systems”, Eighth Edition, Pearson Education, 2006.

Mapping of Course Outcomes with Programme Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1			✓		✓						✓	
CO2	✓		✓		✓	✓				✓		✓
CO3		✓	✓			✓	✓				✓	
CO4	✓		✓		✓	✓	✓	✓		✓		✓
CO5	✓	✓	✓	✓		✓		✓		✓		✓