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| Lab Code | **Lab Name** | Credits |
| CSL503 | Database & Information System Lab 1 | 1 |

**Lab Outcome:** On successful completion of course learner will be able to:

CSL503.1. Design and draw ER and EER diagram for the real life problem with software tool.

CSL503.2. Create and update database and tables with different DDL and DML statements.

CSL503.3. Apply /Add integrity constraints and able to provide security to data.

CSL503.4. Implement and execute Complex queries.

CSL503.5. Apply triggers and procedures for specific module/task

CSL503.6. Handle concurrent transactions and able to access data through front end (using JDBC ODBC

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| **Sr. No.** | **List of experiments** | **CO mapping (LAB)** | **CO mapping**  **(DBMS course)** |
| 1 | Identify the case study and detail statement of problem. Design an Entity-Relationship (ER) / Extended Entity-Relationship (EER) Model. | CSL503.1 | **CSC502.1** |
| 2 | Mapping ER/EER to Relational schema model. | CSL503.1 | **CSC502.2** |
| 3 | Create and populate database using Data Definition Language (DDL) and DML Commands for you‘re the specified System. | CSL503.2 | **CSC502.4** |
| 4 | Perform Simple queries, Date operations. | CSL503.3 | **CSC502.4** |
| 5 | Apply Integrity Constraints for the specified system.(Part1,2,3) | CSL503.2 | **CSC502.4** |
| 6 | Perform Join operations and Complex queries | CSL503.4 | **CSC502.4** |
| 7 | Perform nested sub-queries in SQL | CSL503.4 | **CSC502.4** |
| 8 | PL/SQL and procedure. | CSL503.5 | **CSC502.4** |
| 9 | Function and Triggers | CSL503.5 | **CSC502.4** |
| 10 | Transaction and Concurrency control | CSL503.6. | **CSC502.6** |
| 11 | Innovative Expt. –Distributed database |  |  |
| 12 | Mini project- Creating a 2/3-tier client-server database applications using JDBC/ODBC | ALL | ALL |
| 13 | Presentations |  |  |
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connectivity.)