Vivekanand Education Society's Institute of Technology

Department of Information Technology

Lab Plan

Course Title: Database Management Systems **Year:-2020-2021**

Branch: INFT (III) **Class: D10A**

Faculty In-charge: Ms. Sukanya Roychowdhury

Lab In-charge: Ms. Sukanya Roychowdhury

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Course objectives:

- Learn and practice data modeling using the entity-relationship and developing database designs.
- Understand the use of Structured Query Language (SQL) and learn SQL syntax.
- Understand the needs of database processing and learn techniques for controlling the consequences of concurrent data access

Course Outcomes:

Student should be able to:

CO 1. Explain the features of database management systems and Relational database
CO 2. Design conceptual models of a database using ER modeling for real life applications and also construct queries in Relational Algebra.
CO 3. Create and populate a RDBMS for a real life application, with constraints and keys, using SQL.
CO 4. Retrieve any type of information from a database by formulating complex queries in SQL.
CO 5. Analyze the existing design of a database schema and apply concepts of normalization to design an optimal database.
CO 6. Build indexing mechanisms for efficient retrieval of information from a database

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Sr. No	Experiments	CO's	Grade
1.	Experiment to study different phases of database design. Design ER and EER diagram for company database	CO1,CO2	10
2.	To Map Er/EER to Relational Schema Model for Company Database	CO1,CO2,CO5	10
3.	Experiment to study DDL statements and Integrity constraint	CO3	10
4.	Experiment to study DML commands.	CO3	10
5.	Experiment to study Simple queries and Nested Queries.	CO2,CO4	10
6.	Experiment to study complex and Co-related queries	CO2,CO4	10
7.	Experiment to study different types of Joins.	CO4	10
8.	Experiment to study View.	CO4	10
9.	Execution of procedure and functions by using SQL Server.	CO4	10
10.	Assignment 1 Quiz	CO1, CO2, CO3, CO4, CO5	10

Subject In-charge **Overall Grade**