**PUC Logo**

**Department of Computer Science and Engineering**

**Lesson Plan**

**Course Title:** Database Management System Laboratory **Course Code:** CSE 238

**Level/Term:** 4th  **Section:** A1

**Credit:** 1.5 **Contact Hours:** 3 hours/week

**Prerequisite:** CSE 211 (OOP) **Type: Core/Major:**

**Session**: February, 2019

**Instructor:** Mohammad Hasan, Lecturer, Dept. of CSE, PU.

**Class schedule:** Saturday (3 hours-2.30-5.30; Lab: CL1)

**Counseling Time:**

Tuesday (1.30 p.m. – 2.30 p.m.) **Room No:** 501

**Email address:** mehedih256@gmail.com **Phone No:** 01921009559

**Rationale:** Database Management System Laboratory (DMSL) is very important practice to develop modern systems. The course emphasizes on the practical knowledge of relational database management systems and the front-end developments of different software systems.

**Course Objectives:**

The objectives of this course are to:

1. Gather practical knowledge of different issues involved in the design and implementation of a database system in modern information system.
2. Demonstrate the physical and logical database designs with proper outline.
3. Become acquainted with database modeling techniques/tools of modern era.
4. Become familiar with the basics of developing front-end of a software system.

**Course Outcomes (COs):**

By the end of the course, students will be able to:

1. Design a basic User Interface (UI) for a specific project.
2. Design a database and use query languages.
3. Develop an E-R model to show the database visually.
4. Implement a simple and effective software system.
5. Present the idea of basic software development.

**Assessment:**

Performance (30), report (20), class attendance and class participation (10), viva (10), final exam/project presentation (30).

**References:**

1. https://www.w3schools.com/
2. http://php.net/manual/en/index.php

**Weekly schedule:**

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| **Week** | **Topic** | **Teaching strategy** | **Course outcome** | **Assessment Strategy** |
| Week-1 | Introduction to development tools, HTML.  Task 1: Mini website development (Own Profile) | Practical | CO-1 | Class performance |
| Week-2 | Use of CSS (Bootstrap)  Task 2: Redesign the Own Profile site using CSS. | Practical | CO-1 | task evaluation |
| Week -3 | Basic database implementation in MYSQL using XAMPP server.  Task 3: Design your own project database. | Practical | CO-2,4 | task evaluation |
| Week -4 | Database connection with User Interface and System login  Task 4: Develop System login of your project. | Practical | CO-2,4 | task evaluation |
| Week -5 | Development of insert panels of Class project.  Task 4: Developing insert panels of group project. | Practical | CO-2,4 | task evaluation |
| Week -6 | Development of select/data view panels of Class project.  Task 5: Developing select/data view panels of group project. | Practical | CO-2,4 | task evaluation |
| Week -7 | Development of select/data view panels of Class project.  Task 5: Developing select/data view panels of group project. | Practical | CO-2,4 | task evaluation |
| Week -8 | Development of update panels of Class project.  Task 6: Developing update panels of group project. | Practical | CO-2,4 | task evaluation |
| Week -9 | Development of update panels of Class project.  Task 6: Developing update panels of group project. | Practical | CO-2,4 | task evaluation |
| Week -10 | Development of delete panels of Class project.  Task 7: Developing delete panels of group project. | Practical | CO-2,4 | task evaluation |
| Week -11 | Development of delete panels of Class project.  Task 7: Developing delete panels of group project. | Practical | CO-2,4 | task evaluation |
| Week -12 | Making ER- diagram of class project on MS Visio  Task 8: Making ER- diagram of group project on MS Visio | Practical | CO-3 | task evaluation |
| Week -13 | Project submission  Report 2: Final report of the assigned project. | ------ | CO-5 | Presentation |