COURSE OUTLINE

Course Code: CSE 216

Course Title: Database Sessional

Level/Term: 2/2 **Section: A+B**

Academic Session: 2018-2019

Course Outline:

Oracle SQL: Selection, Aggregation, Join, Sub-query; Oracle DML and DDL Statements; Oracle PL/SQL: Functions, Triggers, and Procedures; Design of a Database; Designing and Implementing multi-platform Database.

Learning Outcomes/Objectives:

After undergoing this course, students should be able to:

i. Learn basic SQL statements in Oracle like selection, projection, filtering, and aggregation, and data manipulation statements like insert, update, and delete statements.

ii. Learn complex SQL statements like join and sub-query

iii. Learn Oracle PL/SQL Statements to write functions, procedures, and triggers.

iv. Design, analyze, and implement a database for a real-world system.

Assessment (Tentative)

1. Participation in lab classes and practice class performance - 5 %

2. Online Assessments - 40%

3. Term Project - 30%

4. Assignment on DBMS Study - 10%

4. Final Quiz - 15%

Text and Reference books:

a. *Oracle-SQL-PL-SQL - A Brief Introduction*,by Sukarna Barua [Reference]

b. *SQL, PL/SQL the Programming Language of Oracle by Ivan Bayross* [Reference]

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Weekly Schedule:

Week No.	Topic Name	
1	Outline with grading policy, Reference books, Oracle installation, Introducing HR schema	
2	**Project group formation** Database Design Lecture + Practice	
3	**ERD Online** **Project Finalization** Basic SQL Lecture	
4	Basic/Advanced SQL Lecture + Practice **ERD Submission of Project**	
5	**Basic SQL Online** Advanced SQL Lecture + Practice	
6	**Online on Advanced SQL** **Assignment submission: designing database table for the assigned project** Class on connection establishment (JAVA, PHP can be demonstrated)	
7	**Project Design Review + Presentation**	
8	**Project Milestone 1 Evaluation** Minimal Requirement: Corrected Database Design, UI Design, Connecting with Database (to be submitted after the mid-term break)	
9	PL/SQL Lecture + Practice	
10	**PL/SQL Online** Assignment on DBMS Study [Storage/Indexing Management] (Demonstration)	
11	**Project and Assignment Update**	

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12	**Quiz**	
13	**Term Project Final Submission**	
14	**Assignment Report Submission** **Reserved**	

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