



COURSE OUTLINE

Course Code: CSE 216

Course Title: Database Sessional

Level/Term: 2/2

Section: A+B

Academic Session: 2018-19

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

1. Participation in lab classes - 10%
2. Online Assessments - 40%
3. Project - 30%
4. Final Quiz - 20%

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]



Weekly Schedule:

Week No.	Topic Name	
1	Outline with Grading Policy and Reference books Lecture on Basic Database Design	
2	Design Practice Class	
3	Full Design Online	
4	Basic SQL Class + Practice	
5	Advanced SQL Class + Practice	
6	SQL Online Quiz	
7	PL/SQL Class + Practice	
8	PL/SQL Online	
9	Project	
10	Project	
11	Project	
12	Project	
13	Quiz	
14	Reserve	