

**King Fahd University of Petroleum and Minerals**  
**College of Computer Science and Engineering**  
**Information and Computer Science Department**  
**Spring Semester 072**  
**ICS 324 - Database Systems**  
**Lab Syllabus**

**Instructor:** Yahya Garout  
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**Suggested Lab Work:**

Students work in small teams to design and implement real life database systems. Students use ER diagram for conceptual modeling. For implementation, students learn and use an appropriate relational database management system. Students may also implement, using some procedural language, the Select and Join relational operators.

**Grade Distribution:**

Activity	Weight
Lab Work	10%
Project	15%

**Lab Outline (Tentative)**

Week	Topic
1	Syllabus discussion
2	Introduction to Database Tools
3	Design: Using Case tools to design an ER diagram
4	Design: Using Case tools to design an ER diagram
5	Design: Using Case tools to design an EER diagram
6	Design: Mapping (E-)ER Diagram to Database Schema
7	Project Description
8	iSQL*Plus
9	SQL: Data Definition Language
10	SQL: Data Manipulation Language and Basic Query
11	SQL: Advanced Query
12	SQL: Advanced Query
13	Project Demo
14	Project Demo

**Important Notes:**

1. Attendance is taken at the beginning of the lab.
2. **Two** late attendances are considered as **one** absence.
3. Official excuse for any absence must be presented not later than one week.
4. Assignments must be submitted on the due date. **No** late submission
5. Plagiarism, copying and other anti-intellectual behavior are prohibited by the university regulations. Violators may have to face serious consequences.