Department of Computer Networks Systems
Course Description Form

Course Title: Database Management Systems (DBMSs)

Course Code:

Semester: I

Level: B.Sc.

Class: 3rd

Academic Year: 2022/2021

Course Instructor: Dr. Waleed Khalid Hassan

Academic status: Lecturer

Place of work: College of Computer Science and Information Technology – IS Dept.

Credit Hours: 2 hours

Instructor Office Hours: Monday
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Ministry of Higher Education & Scientific Research

University of Anbar

**College of Computer Science
and Information Technology**

Computer Networks Systems Department

وَزَارَةُ التَّعْلِيمِ العَالِي وَالبَحْثِ العِلْمِيَّ

جَامِعَةُ الأَنبَار

إكلِيَّةٌ عُلُومِ الحَاسُوبِ وَتِكنُولُوجِيَا المَعلُومَاتِ

قِسمُ انظِمَةِ شبكَاتِ الحَاسُوبِ

Lecture Schedule:

Weeks	Topics
Week 1	Introduction to Database Management System
Week 2	View of Data, Data Abstraction, Instances and Schemas
Week 3	Data Models, Database Architecture
Week 4	Database Languages: DDl, DML
Week 5	Conceptual Database Design - Entity Relationship(ER) Modeling
Week 6	Relational Data Model, Type of Keys
Week 7	Relational Algebra
Week 8	Relational calculus, Tuple Relational Calculus, Examples
	Midterm Exam
Week 9	Domain Relational Calculus, Examples of DRC Queries
Week 10	SQL, the form of a basic SQL query + Examples (1)
Week 11	SQL, the form of a basic SQL query + Examples (2)
Week 12	Schema Refinement
Week 13	Decompositions
Week 14	Functional Dependencies
Week 15	Normalization