The University of Jordan

Accreditation & Quality Assurance Center

COURSE Syllabus

1	Course title	Database Management Systems
2	Course number	**0807774**
3	Credit hours (theory, practical)	3
	Contact hours (theory, practical)	48 Hour/ Semester
4	Prerequisites/corequisites	No prerequisite required
5	Program title	Library and Information Science
6	Program code	07
7	Awarding institution	
8	Faculty	Educational Science
9	Department	Library and Information Science
10	Level of course	2rd year
11	Year of study and semester (s)	First semester/ 2015
12	Final Qualification	
13	Other department (s) involved in teaching the course	
14	Language of Instruction	English
15	Date of production/revision	Sept 2015

16. Course Coordinator:

Office numbers, office hours, phone numbers, and email addresses should be listed.

Dr. Nashrawan Taha
Room no 233. Floor no. 1
Tel: 06-5355000, ext. 24578
Email addresses: n.taha@ju.edu.jo/n.tahat13@gmail.com
Educational Science Faculty
The University of Jordan
Amman

Office Hours:
Sundays: 10- 11 am
Mondays: 1-2 pm
Thursdays: 11-12 am
Weds: 4-5 pm

17. Other instructors:

Office numbers, office hours, phone numbers, and email addresses should be listed.

No additional instructors

18. Course Description:

As stated in the approved study plan.

This course covers different aspects of database management systems including database concepts, models, languages, and systems. The design and implementation of database management system. Relational database model and the ER diagram. Structured query language- SQL commands and syntax. Advanced database topics such as OO database.

19. Course aims and outcomes:

Course Objectives

1) To learn the main concepts related to database.
2) To create Database Tables and apply ERD and normalization concepts into the design
3) To Write SQL Statements in access queries
4) To enable students to design and implement simple practical database system.
5) Plan and undertake a major individual/ group small projects

20. Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Introduction to the course- Course Syllabus - An overview of DBMS DBMS vs. File System DB concepts and architecture DB Models, Schemas and Instances DB Abstractions	Week1	Dr. Nashrawan Taha		Quizzes	

Data Storage and Indexing • Tree • Indexes • Hash-indexes	Week 2				
Entity Relationship Diagram	Week 3-4				
Entity relationship diagram into Relational Tables	Week5-7				
Database Normalization	Week 8				
Introduction to SQL Language SQL Statements	Week -10-12				
OO Database	Week 13				
Distributed DB	Week 14				
Project Working and submission	Week 15				

21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following <u>teaching and learning methods</u>:

Lectures- quizzes and home-works

22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following <u>assessment methods and requirements</u>:

23. Course Policies:

A- Attendance policies:

3

First few minutes of each class

B- Absences from exams and handing in assignments on time:

Based on University regulations

Based on University regulations

C- Health and safety procedures:

Based on University regulations

D- Honesty policy regarding cheating, plagiarism, misbehavior:

Based on University regulations

E- Grading policy:

Based on University regulations

F- Available university services that support achievement in the course:

24. Required equipment:

Computer

25. References:

A- Required book (s), assigned reading and audio-visuals:

- Silberschatz, Korth and Sudarshan, Database System Concepts, 5th edition, Mc Graw Hill, 2006.

B- Recommended books, materials, and media:

- Connolly, Th, M., & Begg, C, E.2005. Database systems: a practical approach to design, implementation, and management. NY: Addison Wesley.
- Elmasri, R., & Navathe, Sh. 2010. Fundamentals of Database systems. Boston: Addison Wesley.
- Date, C, J. 2003. An Introduction to Database Systems. Reading, Mass: Addison Wesley.

26. Additional information:

Name of Course Coordinator: Dr. nashrawan taha **Signature**: - -- **Date**: -------------------- Head of

curriculum committee/Department: Nashrawan taha ---------- Signature: --------------------------------

Head of Department: - Nashrawan taha -- Signature: --------------------------------

Head of curriculum committee/Faculty: ------------------------ Signature: --------------------------------

Dean: -- -Signature: --------------------------------

<u>Copy to:</u>
Head of Department
Assistant Dean for Quality Assurance
Course File