



The University of Jordan

Accreditation & Quality Assurance Center

COURSE Syllabus

1	Course title	Introduction to Databases Systems
2	Course number	0807314
3	Credit hours (theory, practical)	3
	Contact hours (theory, practical)	3
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	3 rd 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.

18. Course Description:

As stated in the approved study plan.

The course aims to give students an introduction to the concepts, theory and the practical applications of databases and database management systems. The course presents the relational database design techniques and the database system conceptual and practical implementation by using Microsoft Access. . It also allows students to be able to create database objects (tables, forms, reports) and present tables using Entity relationship diagram ERD. The course discusses information retrieval techniques like queries; and lastly gives an overview of SQL commands and their uses in Access. Other objective of this course is to make students able to create their own group-work projects by designing and building the database.

19. Course aims and outcomes:

A- Aims:**Knowledge and Understanding (students should)**

- A1) Be able to discuss/ explain the vocabularies related to database.
- A2) Be able to discuss/ explain the difference between data and database.
- A3) Be able to distinguish between database components and environments.
- A4) Be able to make an analysis and gather data, and manage them into tables in a database.
- A5) Be able to discuss/explain the concept information retrieval and it uses in the system.

Intellectual skills – with ability to

- 1) Design and implement simple practical database system.
- 2) apply ERD and normalization concepts into the design
- 3) Analyze and evaluate real life manual systems and suggest the suitable database that represent them

Practical Skills – with ability to:

- 1) Create Database Tables and enhance them
- 2) create relationships between tables that satisfies referential integrities
- 3) Sort, Filter, and Query Databases
- 4) Create Forms and Reports and customize them
- 5) Create Macros, PivotTables, and PivotCharts
- 6) Write SQL Statements in access queries

Transferable Skills – with ability to:

- 1) learn how to work effectively with his team members to create the database
- 2) Apply what had been learnt into students study field like libraries and schools
- 3) Improve the way of thinking about existing real life manual systems in order to use database technology to replace these old methods.
- 4) Be responsible by working to multiple deadlines in relation to the course requirements.
- 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 Databases	Week1-2	Dr. Nashrawan Taha		Quizzes	Elmasri, R., & Navathe, Sh. 2010. Fundamentals of

					Database systems. Boston: Addison Wesley.
Database Architecture	Week 2				
Relational database concepts	Week 3-4				
Entity Relationship Diagram	Week5-7				
Entity relationship diagram into Relational Tables	Week 8-9				
Building Tables in Access	Week -10-11				
Relationships between tables	Week 12				
Introduction to Structured Query Language: SQL	Week 13-14				
Project Working and submission	Week 15				

21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

Lectures- quizzes and homeworks

22. Evaluation Methods and Course Requirements:

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

23. Course Policies:

A- Attendance policies:

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:

- Elmasri, R., & Navathe, Sh. 2010. Fundamentals of Database systems. Boston: Addison Wesley.

B- Recommended books, materials, and media:

- Date, C, J. 2003. An Introduction to Database Systems. Reading, Mass: Addison Wesley.
- Connolly, Th, M., & Begg, C, E.2005. Database systems: a practical approach to design, implementation, and management. NY: Addison Wesley.
- Silberschatz, Korth and Sudarshan, "**Database System Concepts**", **5th edition**, Mc Graw Hill, 2006.

26. Additional information:

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

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

Head of Department: ----- Signature: -----

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

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

Copy to:
Head of Department
Assistant Dean for Quality Assurance
Course File