Course Syllabus

1	**Course title**	Database 1	
2	**Course number**	1605320	
3	**Credit hours**	3 Hours	
	Contact hours (theory, practical)	Daily (10:30 -11:30 , 11:30 -1:00)	
4	**Prerequisites/corequisites**	None	
5	**Program title**	Management Information Systems(MIS)	
6	**Program code**	05	
7	**Awarding institution**	University of Jordan	
8	**School**	Business School	
9	**Department**	Management Information System	
10	**Course level**	Third year	
11	**Year of study and semester (s)**	First Semester 2022/2023	
12	**Other department (s) involved in teaching the course**	None	
13	**Main teaching language**	English	
14	**Delivery method**	☐Face to face learning ☐Blended ☐Fully online	
15	**Online platforms(s)**	☐Moodle ☐Microsoft Teams ☐Skype ☐Zoom ☐Others…………	
16	**Issuing/Revision Date**		

17 Course Coordinator:

Name: Rand Aldmour Contact hours:9:30-10:30
Office number: 24288 Phone number:
Email: Rand.aldmour@ju.edu.jo

18 Other instructors:

Name:

Office number:

Phone number:

Email:

Contact hours:

Name:

Office number:

Phone number:

Email:

Contact hours:

19 Course Description:

As stated in the approved study plan.

Introduces the fundamental concepts necessary for designing, using, and implementing database systems and database applications. stresses the fundamentals of database modeling and design, the languages and models provided by the database management systems, and database system implementation techniques.

20 Course aims and outcomes:

A- Aims:

1. Describes the basic introductory concepts necessary for a good understanding of database models, systems, and languages.
2. Understand the relational data model, the SQL standard, and the formal relational languages.
3. Describes the basic relational model, its integrity constraints, and update operations.
4. Describes some of the basic parts of the SQL standard for relational databases, including data definition, data modification operations, and simple SQL queries.

B- Students Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

SLOs SLOs of the course	PLO (1)	PLO (2)	PLO (3)	PLO (4)	PLO (5)	PLO (6)	PLO (7)	PLO (8)
Describes the basic introductory concepts necessary for a good understanding of database models, systems, and languages.	✓						✓	
Understand the relational data model, the SQL standard, and the formal relational languages.							✓	
Describes the basic relational model, its integrity constraints, and update operations.	✓							
Describes some of the basic parts of the SQL standard for relational databases, including data definition, data modification operations, and simple SQL queries.					✓			

21. Topic Outline and Schedule:

Week	Lecture	Topic	Intended Learning Outcome	Learning Methods (Face to Face/Blended/ Fully Online)	Platform	Synchronous / Asynchronous Lecturing	Evaluation Methods	Resources
1	1.1	Database Introduction		Face to Face	M.T		Exam and Assignment	
	1.2	Key Fields		Face to Face	M.T		Exam and Assignment	
	1.3	Assignment		Face to Face	M.T		Exam and Assignment	
2	2.1	ER model Components		Face to Face	M.T		Exam and Assignment	
	2.2	ER model Components		Face to Face	M.T		Exam and Assignment	
	2.3	ER model Components		Face to Face	M.T		Exam and Assignment	
3	3.1	Cardinality Relationship		Face to Face	M.T		Exam and Assignment	
	3.2	Participation Constraints		Face to Face	M.T		Exam and Assignment	
	3.3	ER Scenarios 1		Face to Face	M.T		Exam and Assignment	
4	4.1	ER Scenarios 2		Face to Face	M.T		Exam and Assignment	
	4.2	ER Revision		Face to Face	M.T		Exam and Assignment	
	4.3	Mapping Regular Entity Types		Face to Face	M.T		Exam and Assignment	
5	5.1	Mapping weak Entity Types		Face to Face	M.T		Exam and Assignment	
	5.2	Mapping of Binary Relation Type		Face to Face	M.T		Exam and Assignment	
	5.3	Mapping of Multivalued Attributes		Face to Face	M.T		Exam and Assignment	
6	6.1	Mapping Relationships		Face to Face	M.T		Exam and Assignment	
	6.2	Mapping Exercise		Face to Face	M.T		Exam and Assignment	
	6.3	Mapping Exercise		Face to Face	M.T		Exam and Assignment	

7	7.1	Mapping Exercise		Face to Face	M.T		Exam and Assignment	
	7.2	Mapping Exercise		Face to Face	M.T		Exam and Assignment	
	7.3	Normalization (A transitive dependency)		Face to Face	M.T		Exam and Assignment	
8	8.1	First Normal Form (1NF)		Face to Face	M.T		Exam and Assignment	
	8.2	Second Normal Form (2NF)		Face to Face	M.T		Exam and Assignment	
	8.3	Third Normal Form (3NF)		Face to Face	M.T		Exam and Assignment	
9	9.1	Normalization Exercises		Face to Face	M.T		Exam and Assignment	
	9.2	Data Types		Face to Face	M.T		Exam and Assignment	
	9.3	Constraints		Face to Face	M.T		Exam and Assignment	
10	10.1	DDL Commands (Create)		Face to Face	M.T		Exam and Assignment	
	10.2	DDL Commands (Alter)		Face to Face	M.T		Exam and Assignment	
	10.3	DDL Commands (Drop)		Face to Face	M.T		Exam and Assignment	
11	11.1	DMl Commands (Insert)		Face to Face	M.T		Exam and Assignment	
	11.2	DMl Commands (Update)		Face to Face	M.T		Exam and Assignment	
	11.3	DDL Commands (Drop)		Face to Face	M.T		Exam and Assignment	
12	12.1	DMl Commands (Delete)		Face to Face	M.T		Exam and Assignment	
	12.2	DML Commands (Select)		Face to Face	M.T		Exam and Assignment	
	12.3	DML Commands (Select)		Face to Face	M.T		Exam and Assignment	

22 Evaluation Methods:

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

Evaluation Activity	Mark	Topic(s)	SLOs	Period (Week)	Platform
Mid –Term	30	Chapter 1	1 , 7	Fifth Week	On campus
Quiz	20	Normalization	5	Through Semester	On campus
Final	50	All topics	1,5,7	Through Semester	On campus

23 Course Requirements

(e.g: students should have a computer, internet connection, webcam, account on a specific software/platform…etc):

Computer /Laptop

24 Course Policies:

A- Attendance policies:

B- Absences from exams and submitting assignments on time:

C- Health and safety procedures:

D- Honesty policy regarding cheating, plagiarism, misbehavior:

E- Grading policy:

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

25 References:

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

B- Recommended books, materials, and media:

26 Additional information:

Name of Course Coordinator Rand.aldmour   Signature: ---------------------- Date: ------------------

Head of Curriculum Committee/Department: --------------------------- Signature: ----------------------------------

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

Head of Curriculum Committee/Faculty: -------------------------------------- Signature: -------------------------

Dean: --- Signature: ---