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 Systems(MIS)
10	**Course level**	Second Year
11	**Year of study and semester (s)**	First Semester
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: Dr.Rand Aldmour	Contact hours (10:30 -11:30 , 11:30 -1:00)
Office number: 24288	Phone number:
Email:Rand.Aldmour@ju.edu.jo	

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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)	PLO (9)
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		Blended	M.Teams		Exam and Assignment	
	1.2	Key Fields		Blended	M.Teams		Exam and Assignment	
	1.3	Assignment		Blended	M.Teams		Exam and Assignment	
2	2.1	ER model Components		Blended	M.Teams		Exam and Assignment	
	2.2	ER model Components		Blended	M.Teams		Exam and Assignment	
	2.3	ER model Components		Blended	M.Teams		Exam and Assignment	
Week	**Lecture**	Topic	**Intended Learning Outcome**	**Learning Methods (Face to Face/Blended/ Fully Online)**	**Platform**	**Synchronous / Asynchronous Lecturing**	**Evaluation Methods**	**Resources**
3	3.1	Cardinality Relationship		Blended	M.Teams		Exam and Assignment	All material and recorded videos available on E-learning
	3.2	Participation Constraints		Blended	M.Teams		Exam and Assignment	
	3.3	ER Scenarios 1		Blended	M.Teams		Exam and Assignment	
4	4.1	ER Scenarios 2		Blended	M.Teams		Exam and Assignment	
	4.2	ER Revision		Blended	M.Teams		Exam and Assignment	
	4.3	Mapping Regular Entity Types		Blended	M.Teams		Exam and Assignment	
5	5.1	Mapping weak Entity Types		Blended	M.Teams		Exam and Assignment	
	5.2	Mapping of Binary		Blended	M.Teams		Exam and Assignment	

		Relation Type						
	5.3	Mapping of Multivalued Attributes		Blended	M.Teams		Exam and Assignment	
6	6.1	Mapping Relationships		Blended	M.Teams		Exam and Assignment	
	6.2	Mapping Exercise		Blended	M.Teams		Exam and Assignment	
	6.3	Mapping Exercise		Blended	M.Teams		Exam and Assignment	
7	7.1	Mapping Exercise		Blended	M.Teams		Exam and Assignment	
	7.2	Mapping Exercise		Blended	M.Teams		Exam and Assignment	
	7.3	Normalization (A transitive dependency)		Blended	M.Teams		Exam and Assignment	
8	8.1	First Normal Form (1NF)		Blended	M.Teams		Exam and Assignment	
	8.2	Second Normal Form (2NF)		Blended	M.Teams		Exam and Assignment	
	8.3	Third Normal Form (3NF)		Blended	M.Teams		Exam and Assignment	
9	9.1	Mapping Relationships		Blended	M.Teams		Exam and Assignment	All material and recorded videos available on E-learning
	9.2	Mapping Exercise		Blended	M.Teams		Exam and Assignment	
	9.3	ER Scenarios 1		Blended	M.Teams		Exam and Assignment	

10	10.1	ER Scenarios 2		Blended	M.Teams		Exam and Assignment	
	10.2	ER Revision		Blended	M.Teams		Exam and Assignment	
	10.3	Mapping Regular Entity Types		Blended	M.Teams		Exam and Assignment	
11	11.1	Mapping weak Entity Types		Blended	M.Teams		Exam and Assignment	
	11.2	Mapping of Binary Relation Type		Blended	M.Teams		Exam and Assignment	
	11.3	Mapping of Multivalued Attributes		Blended	M.Teams		Exam and Assignment	
12	12.1	Mapping Relationships		Blended	M.Teams		Exam and Assignment	
	12.2	Normalization (A transitive dependency)		Blended	M.Teams		Exam and Assignment	
	12.3	First Normal Form (1NF)		Blended	M.Teams		Exam and Assignment	
13	13.1	Second Normal Form (2NF)		Blended	M.Teams		Exam and Assignment	
	13.2	Third Normal Form (3NF)		Blended	M.Teams		Exam and Assignment	
	13.3	Normalization Exercises		Blended	M.Teams		Exam and Assignment	
14	14.1	Data Types		Blended	M.Teams		Exam and Assignment	

	14.2	Constraints		Blended	M.Teams		Exam and Assignment	
	14.3	DDL Commands (Create)		Blended	M.Teams		Exam and Assignment	
15	15.1	DDL Commands (Alter)		Blended	M.Teams		Exam and Assignment	
	15.2	DDL Commands (Drop)		Blended	M.Teams		Exam and Assignment	
	15.3	DMl Commands (Insert)		Blended	M.Teams		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	Conceptual Phase		Fifth week	On Campus
Quiz	20	Logical Phase		Eighth Week	On Campus
Final	50	All Phases		On Final Period	On Campus

23 Course Requirements

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

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: ----------