مركز الاعتماد وضمان الجودة

Course Syllabus

1	**Course title**	Contemporary Issues in MIS
2	**Course number**	1605335
3	**Credit hours**	3
	Contact hours (theory, practical)	3
4	**Prerequisites/corequisites**	None
5	**Program title**	BA. Management Information Systems
6	**Program code**	1605
7	**Awarding institution**	The University of Jordan
8	**School**	Business School
9	**Department**	Management Information Systems
10	**Course level**	
11	**Year of study and semester (s)**	2022/2023
12	**Other department (s) involved in teaching the course**	
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.Mohammad Al Nawayseh Contact hours: Sunday – Thursday 12:00 – 1:00

Office number: Phone number:

Email: m.nawaiseh@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:

This course provides students with an in-depth understanding of the design and implementation of data warehousing and data mining-based systems. It will address the opportunities and challenges of applying data mining techniques in academics, industry, businesses, sciences and the Web. Several aspects of the data mining process are covered in this course such as: data gathering and storage, data selection and preparation, model building and testing, results interpretation and validation and models application.

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20 Course aims and outcomes:

A- Aims:

- To introduce students to the basic concepts and techniques of Data Mining.
- To develop skills of using recent data mining software for solving practical problems.
- To gain experience of doing independent study and research.

B- Students Learning Outcomes (SLOs):

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

SLOs / SLOs of the course	SLO (1)	SLO (2)	SLO (3)	SLO (4)
1. Understand what data mining is and how data mining can be employed and applied to solve real problems.				
2. Recognize wither a data mining solution is feasible alternative for a specific problem.				
3. Apply basic statistical to evaluate the results of data mining models.				
4. Develop a comprehensive understanding of how several data mining techniques can be applied to solve problems.				
5				
6				

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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	Syllabus		Online	MS/Teams			Textbook
	1.2	Introduction		Online	MS/Teams		Project + Exam	Textbook
	1.3	Introduction		Online	MS/Teams		Project + Exam	Textbook
2	2.1	Python Programming		Online	MS/Teams		Project + Exam	Textbook
	2.2	Python Programming		Online	MS/Teams		Project + Exam	Textbook
	2.3	Python Programming		Online	MS/Teams		Project + Exam	Textbook
Week	**Lecture**	**Topic**	**Intended Learning Outcome**	**Learning Methods (Face to Face/Blended/ Fully Online)**	**Platform**	**Synchronous / Asynchronous Lecturing**	**Evaluation Methods**	**Resources**
3	3.1	Python Programming		Online	MS/Teams			Textbook
	3.2	Python Programming		Online	MS/Teams			Textbook
	3.3	Python Programming		Online	MS/Teams			Textbook
4	4.1	Python Programming		Online	MS/Teams			Textbook
	4.2	Python Programming		Online	MS/Teams			Textbook
	4.3	Python Programming		Online	MS/Teams			Textbook

5	5.1	Chapter (2): Data		Online	MS/Teams			Textbook
	5.2	Chapter (2): Data		Online	MS/Teams			Textbook
	5.3	Chapter (2): Data		Online	MS/Teams			Textbook
6	6.1	Chapter (2): Data		Online	MS/Teams			Textbook
	6.2	Chapter (2): Data		Online	MS/Teams			Textbook
	6.3	Chapter (2): Data		Online	MS/Teams			Textbook
7	7.1	Chapter (3): Classification: Basic Concepts and Techniques		Online	MS/Teams			Textbook
	7.2	Chapter (3): Classification: Basic Concepts and Techniques		Online	MS/Teams			Textbook
	7.3	Chapter (3): Classification: Basic Concepts and Techniques		Online	MS/Teams			Textbook
8	8.1	Chapter (3): Classification: Basic Concepts and Techniques		Online	MS/Teams			Textbook
	8.2	Chapter (3): Classification: Basic Concepts and Techniques		Online	MS/Teams			Textbook
	8.3	Chapter (3): Classification: Basic Concepts and Techniques		Online	MS/Teams			Textbook
9	9.1	Chapter (3): Classification: Basic Concepts and Techniques		Online	MS/Teams			Textbook
	9.2	Chapter (3): Classification: Basic Concepts and Techniques		Online	MS/Teams			Textbook

	9.3	Chapter (3): Classification: Basic Concepts and Techniques		Online	MS/Teams			Textbook
10	10.1	Chapter (5): Association Analysis: Basic Concepts and Algorithms		Online	MS/Teams			Textbook
	10.2	Chapter (5): Association Analysis: Basic Concepts and Algorithms		Online	MS/Teams			Textbook
	10.3	Chapter (5): Association Analysis: Basic Concepts and Algorithms		Online	MS/Teams			Textbook
11	11.1	Chapter (5): Association Analysis: Basic Concepts and Algorithms		Online	MS/Teams			Textbook
	11.2	Chapter (5): Association Analysis: Basic Concepts and Algorithms		Online	MS/Teams			Textbook
	11.3	Chapter (5): Association Analysis: Basic Concepts and Algorithms		Online	MS/Teams			Textbook
12	12.1	Chapter (5): Association Analysis: Basic Concepts and Algorithms		Online	MS/Teams			Textbook
	12.2	Chapter (5): Association Analysis: Basic		Online	MS/Teams			Textbook

		Concepts and Algorithms						
	12.3	Chapter (5): Association Analysis: Basic Concepts and Algorithms		Online	MS/Teams			Textbook
13	13.1	Chapter (5): Association Analysis: Basic Concepts and Algorithms		Online	MS/Teams			Textbook
	13.2	Chapter (5): Association Analysis: Basic Concepts and Algorithms		Online	MS/Teams			Textbook
	13.3	Chapter (5): Association Analysis: Basic Concepts and Algorithms		Online	MS/Teams			Textbook
14	14.1	Chapter (5): Association Analysis: Basic Concepts and Algorithms		Online	MS/Teams			Textbook
	14.2	Chapter (5): Association Analysis: Basic Concepts and Algorithms		Online	MS/Teams			Textbook
	14.3	Chapter (5): Association Analysis: Basic Concepts and Algorithms		Online	MS/Teams			Textbook
15	15.1	Chapter (5): Association Analysis: Basic Concepts and Algorithms		Online	MS/Teams			Textbook

	15.2	Chapter (5): Association Analysis: Basic Concepts and Algorithms		Online	MS/Teams			Textbook
	15.3	Chapter (5): Association Analysis: Basic Concepts and Algorithms		Online	MS/Teams			Textbook

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
Quizzes	10				
Midterms	30				
Assignments					
Projects/Case studies	10				
Final	50				
Total	100				

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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:

Introduction to Data Mining, 2nd Global Edition, Pang-Ning Tan, Michael Steinbach, Anuj Karpatne, Vipin Kumar. Pearson.

B- Recommended books, materials, and media:

1. Principles of Data Mining, Max Bramer, Springer
2. Data Mining Concepts and Techniques, Jiawei Han, Micheline Kamber, Jian Pei, Elsevier
3. Predictive Analytics and Data Mining: Concepts and Practice with RapidMiner. Vijay Kotu, Bala Deshpande. Morgan Kaufmann.

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26 Additional information:

Name of Course Coordinator: Dr.Mohammad Al Nawayseh Signature: ---------- Date: ----------
Head of Curriculum Committee/Department: ---------- Signature: ----------
Head of Department: ---------- Signature: ----------
Head of Curriculum Committee/Faculty: ---------- Signature: ----------
Dean: ---------- Signature: ----------