



**Jordan University of Science and Technology**  
**Faculty of Computer & Information Technology**  
**Computer Information Systems Department**

CIS321 Data Mining

First Semester 2021-2022

**Course Catalog**

3 Credit Hours. In this course, students will learn about the advances in computer information systems, machine learning, statistics, intelligent systems and methodologies for the automatic discovery of knowledge from large high dimensional databases. The course covers basic concepts and techniques, including data cleaning, clustering, classification, association rules mining. Finally, the course surveys data mining tools and applications

**Text Book**

<b>Title</b>	Introduction to Data Mining
<b>Author(s)</b>	Pang-Ning Tan, Michael Steinbach, Anuj Karpatne, and Vipin Kumar
<b>Edition</b>	2nd Edition
<b>Short Name</b>	Main Book
<b>Other Information</b>	

**Instructor**

<b>Name</b>	<b>Dr. Ahmad Mustafa</b>
<b>Office Location</b>	-
<b>Office Hours</b>	Sun : 11:30 - 13:30 Mon : 11:00 - 12:00 Tue : 11:30 - 13:30 Wed : 11:30 - 12:30
<b>Email</b>	ammustafa@just.edu.jo

**Class Schedule & Room**

**Section 1:**

Lecture Time: Sun, Tue : 08:30 - 10:00

Room: M3305

**Section 3:**

Lecture Time: Sun, Tue : 10:00 - 11:30

Room: U

**Prerequisites**

Line Number	Course Name	Prerequisite Type
902331	MATH233 Probability & Statistics (For Computer Sciences Students)	Prerequisite / Study
1742210	CIs221 Fundamentals Of Database Systems	Prerequisite / Study

**Tentative List of Topics Covered**

Weeks	Topic	References
Weeks 1, 2	Introduction	<b>Ch1</b> From <b>Main Book</b>
Weeks 3, 4, 5	Data Presprocessing	<b>Ch 2</b> From <b>Main Book</b>
Weeks 6, 7, 8, 9	Classification Algorithms	<b>Ch 3, Ch 4</b> From <b>Main Book</b>
Weeks 10, 11, 12, 13	Clustering Algorithms	<b>Ch 7</b> From <b>Main Book</b>
Weeks 13, 14	Association Rules Mining	<b>Ch 5</b> From <b>Main Book</b>

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Know data mining process and basic terms associated with it. [1SO1]	5%	
Apply several preprocessing techniques to data [1SO1, 1SO2]	20%	
Know classification algorithms and their accuracy measures [1SO1, 1SO2]	25%	
Know clustering algorithms and their accuracy measures [1SO1, 1SO2]	30%	
Know association rules mining and the accuracy measures [1SO1, 1SO2]	20%	

Relationship to Program Student Outcomes (Out of 100%)																
A	B	C	D	E	F	G	H	I	J	K	SO1	SO2	SO3	SO4	SO5	SO6
											52.50	47.50				

Evaluation	
Assessment Tool	Weight
Midterm Exam	30%
Homework	20%
Final Exam	50%

Policy	
Attendance	1. According to the JUST policy, a student will receive the grade of ZERO (35%) ?failed for absence? if he misses more than 20% of the classes, (2) Attendance will be taken by calling the names or passing a sign-up sheet, (3) If you miss a class, it is your responsibility to find out about any announcements or assignments you may have missed
Participation	Participation in the class will positively affect your performance. Disruption and side talks will possibly result in dismissal from class No eating or chewing gums are allowed in class.

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