



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

CIS435 Information Retrieval
Summer Semester 2019-2020

Course Catalog
<p>3 Credit Hours. Databases are not the only means for the storage. Documents are also information repositories, often referred to as semi-structured data, forming the backbone of the Web. Information retrieval is concerned with finding such material (documents) of an unstructured nature (text) that satisfies an information need from within large collections. Work has gone on for at least a decade on how to manage and find documents in the web, how to structure and navigate large collections, and how extract information from text sources. This module introduces topics related to information retrieval systems and web search.</p>

Text Book	
<b>Title</b>	Introduction to Information Retrieval
<b>Author(s)</b>	C. D Manning, P. Raghavan, H. Schutze
<b>Edition</b>	1st Edition
<b>Short Name</b>	B1
<b>Other Information</b>	

Class Schedule & Room

Prerequisites		
Line Number	Course Name	Prerequisite Type
1732112	CS211 Data Structures	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	Topic	References
Weeks 1, 2	Boolean retrieval	From <b>B1</b>
Weeks 3, 4	The term vocabulary and postings lists	From <b>B1</b>

Weeks 5, 6	Dictionaries and tolerant retrieval	From <b>B1</b>
Weeks 7, 8	Scoring, term weighting and the vector space model	From <b>B1</b>
Weeks 9, 10	Evaluation in information retrieval	<b>Ch. 8</b> From <b>B1</b>
Week 11	Classification	<b>Ch. 13 and 15</b> From <b>B1</b>
Weeks 12, 13, 14	Web crawling and Link analysis	<b>Ch. 20 and 21</b> From <b>B1</b>

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Understand foundations and concepts of Information Retrieval [1SO1]	20%	
Demonstrate the techniques used to build IR system and how it works [1SO2]	20%	
Understand data representation in information retrieval [1SO1]	25%	
Ability to understand the evaluation techniques of information retrieval systems [1SO2]	15%	
Understand the concepts related to web crawling and link analysis [1SO1]	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
											65	35				

Evaluation	
Assessment Tool	Weight
First Exam	20%
Second Exam	20%
Assignments	10%
Final Exam	50%

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