



Course Syllabus

Year: 2018-2019

Semester: (1)

Course No.	Course Title	Designation	Prerequisite	Co-requisite	Credit Hours Lectures /Lab.
151002372	Information Retrieval Systems	Compulsory	151002372	-	3 / 0

Instructor Name	E-mail	Office No.	Office ext.	Office Hours
Dr. Zaher Salah	<u>zaher@hu.edu.jo</u>	340	5060	Sun, Tue, Wed (1:00-2:00)

Coordinator's Name:	Dr. Zaher Salah
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Learning References:

1- Textbook (s):			
1.	Christopher D. Manning, Prabhakar Raghavan and Hinrich Schütze, Introduction to		
	Information Retrieval, Cambridge University Press. 2009. http://nlp.stanford.edu/IR-		

2- References:

1. ChengXiang Zhai, Statistical Language Models for Information Retrieval (Synthesis Lectures Series on Human Language Technologies), Morgan & Claypool Publishers, 2008.

	Course Learning Outcomes CLOs			
1.	Identify and recognize the concepts of natural language processing, text retrieval systems and			
	the system development life cycle for the information retrieval systems. (a, b)			
2.	Analyze and identify all issues around the natural language processing and text retrieval systems.			
	(a, b)			
3.	Design and recognize all methodologies and aspects of designing information retrieval systems			
	like Web Search Engines. (c)			
4.	Design and recognize all aspects of the retrieval models and implementation: Vector Space Models			
	(c)			
5.	Apply knowledge of computing and mathematics appropriate to the linguistic models,			
	probabilistic models and statistical language models (a, b)			
6.	Design and evaluate the appropriate retrieval model. (c)			
7.	Understanding of professional, ethical, legal, security and social issues and responsibilities that			
	rest upon the Information Retrieval Systems. (e)			
	Addressed Student Learning Outcomes (SLOs)			
	a, b, c and e			

	Topics	CLO number	Reference	No. of Weeks	Contact hours*
1.	Overview of text retrieval systems.	1+2	Ch-1, textbook	1	3
2.	Building dictionary	3	Ch-2, textbook	2	6
3.	Tolerant information retrieval systems	3	Ch-3, textbook	3	9
4.	Index construction: Scoring, Term Weighting and the Vector Space Model	4+5	Ch-4+ Ch-6, textbook	3	9
5.	Evaluation	6+7	Ch-8, textbook	3	9
6.	Relevance feedback and query expansion	5	Ch-9, textbook	2	6
	Total			14	42

Assessment method	Grade	Comments
First Exam	25 %	Covers Chapters 1, 2, 3
Second Exam	25 %	Covers Chapters 4, 6, 8
Assignments	10%	TBA
Final Exam	40%	Covers all topics
Total	100%	