

Syrian Arab Republic	 الجامعة الافتراضية السورية SYRIAN VIRTUAL UNIVERSITY	الجمهورية العربية السورية
Ministry of Higher Education		وزارة التعليم العالي
Syrian Virtual University		الجامعة الافتراضية السورية

Course Description: **Information Retrieval**

1- Basic Information:

Course Name	Information Retrieval
Course ID	IR
Contact Hours (Registered Sessions)	16
Contact Hours (Synchronized Sessions)	16
Mid Term Exam	-
Exam	75 min
Registered Sessions Work Load	16
Synchronized Session Work Load	16
Credit Hours	3

2- Pre-Requisites:

Course	ID
None	

3- Course General Objectives:

Education of basic principles in information retrieval science which is the essential of search engines. Knowledge of the methods used to search information in texts, how to index texts and the models of text representation, the measures permitting the determination of the relevance of the results to a giving query, and the methods of evaluating search engines and information retrieval systems.

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4- Intended Learning Outcomes (ILO):

Code	Intended Learning Outcomes
ILO1	Learning basic principles in information retrieval and the methods of indexing, modeling, and searching of information
ILO2	Knowledge of texts and queries representation models, indices types and ranking methods
ILO3	Understanding the text information retrieval different models
ILO4	Evaluation of information retrieval systems and search engines and comparing their features
ILO5	Design and build a prototype of an information retrieval system or search engine
ILO6	
ILO7	
ILO8	

5- Course Syllabus (18 hours of total synchronized sessions; 18 hours of total Recorded Sessions)

- **RS:** Recorded Sessions; **SS:** Synchronized Sessions;

ILO	Course Syllabus	RS	SS	Type	Additional Notes
ILO1	Introduction and basic concepts, methods of indexing, modeling, and search of information	3	3	<input type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input checked="" type="checkbox"/> Seminars <input type="checkbox"/> Projects <input type="checkbox"/> Practices <input type="checkbox"/> Others	
ILO2	Text information retrieval / documents and queries representation, indices types, ranking methods	4.5	4.5	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input checked="" type="checkbox"/> Seminars <input type="checkbox"/> Projects <input type="checkbox"/> Practices <input type="checkbox"/> Others	
ILO3	Information retrieval models	4.5	4.5	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments	

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				<input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input type="checkbox"/> Practices <input type="checkbox"/> Others	
ILO4	Documents clustering	3	3	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input type="checkbox"/> Practices <input type="checkbox"/> Others	
ILO5	Evaluation of information retrieval systems and search engines, evaluation methods, comparisons.	3	3	<input checked="" type="checkbox"/> Exercises <input type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input type="checkbox"/> Practices <input type="checkbox"/> Others	
ILO6				<input type="checkbox"/> Exercises <input type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input type="checkbox"/> Practices <input type="checkbox"/> Others	
ILO7				<input type="checkbox"/> Exercises <input type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input type="checkbox"/> Practices <input type="checkbox"/> Others	
ILO8				<input type="checkbox"/> Exercises <input type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input type="checkbox"/> Practices <input type="checkbox"/> Others	

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6- Assessment Criteria (Related to ILOs)

ISC	Interactive Synchronized Collaboration	Ex	Exams	Rpt	Reports
PF2F	Presentations and Face-to-Face Assessments	PW	Practice Work		

ILO Code	ILO	Intended Results	Assessment Type				
			ISC	PW	Ex	PF2F	Rpt
ILO1	Learning basic principles in information retrieval and the methods of indexing, modeling, and searching of information		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
ILO2	Knowledge of texts and queries representation models, indices types and ranking methods		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
ILO3	Understanding the text information retrieval different models		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
ILO4	Evaluation of information retrieval systems and search engines and comparing their features		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
ILO5	Design and build a prototype of an information retrieval system or search engine		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
ILO6			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
ILO7			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
ILO8			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>

7-Practice Tools:

Tool Name	Description
Course Name	

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8-Main References

Information Retrieval course content, Syrian virtual university, 2008.
 Introduction to Information Retrieval, Christopher Manning and Prabhakar Raghavan, 2009 Cambridge University Press.

9-Additional References

Search Engines, Information Retrieval in practice, W. Bruce Croft et all, Pearson Education, 2010.