SESSION PLAN

Lecture

	Course Particulars
CR317	Title: Information Retrieval

	Session Particulars	
#: 1	Title: Introduction to IR	Hrs: 2Hrs

	LEARNING OUTCOMES / ABILITIES GAINED*
#	Outcome Description
1	Course scope
2	Why Information Retrieval and Search Engines
3	Basic Concepts of IR
1	

Prepared by:
Designation: Course Coordinator Name: Ms. Lamiaa Mostafa

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Date: 15/8/2010

Approved by:

Designation: Program Manager Name: Dr.Walid Abdelmoez

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SESSION PLAN

Lecture

	Course Particulars
CR317	Title: Information Retrieval

	Session Particulars	
#: 2	Title: Applications on IR Modeling	Hrs: 2Hrs

	LEARNING OUTCOMES / ABILITIES GAINED*
#	Outcome Description
1	Introduction to Retrieval Models
2	Models Classification
3	Retrieval Tasks
4	Class Information Retrieval Models – Basic Concepts
5	The Boolean Model
6	The Vector Model

Prepared by:

Designation: Course Coordinator Name: Ms. Lamiaa Mostafa

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Date: 15/8/2010

Approved by:

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SESSION PLAN

Lecture

	Course Particulars
CR317	Title: Information Retrieval

	Session Particulars	
#: 3	Title: Applications on IR Modeling Continued	Hrs: 2Hrs

	LEARNING OUTCOMES / ABILITIES GAINED*
#	Outcome Description
1	The Probabilistic Model
2	Brief Comparison of Classic Models
3	Non-Overlapping Model
4	Proximal Nodes Model
5	Flat Browsing
6	Structure Guided Browsing
7	The Hypertext Model

Prepared by:
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SESSION PLAN

Lecture

Course Particulars	
CR317	Title: Information Retrieval

SESSION PARTICULARS		
#: 4	Title: Exercises on Query Languages	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
Outcome Description	
Keyword-Based Querying	
Single Word Queries	
Context Queries	
Boolean Queries	
Natural Language	
Pattern Matching	
Simple Patterns	
Allowing Errors	
Regular Expressions	
Structural Queries	
Fixed Structure	
Hypertext	
Hierarchical Structure	

Prepared by:

Designation: Course Coordinator Name: Ms. Lamiaa Mostafa

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Date: 15/8/2010

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Designation: Program Manager Name: Dr.Walid Abdelmoez

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SESSION PLAN

Lecture

Course Particulars	
CR317	Title: Information Retrieval

	Session Particulars	
#: 5	Title: Operations on Text and Multimedia Languages	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*		
#	Outcome Description	
1	Metadata	
2	Descriptive metadata	
3	Semantic metadata	
4	Web metadata	
5	Markup Language	
6	SGML	
7	HTML	
8	XML	
9	DTD	

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Designation: Course Coordinator Name: Ms. Lamiaa Mostafa

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Date: 15/8/2010

Approved by:

Designation: Program Manager Name: Dr.Walid Abdelmoez

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SESSION PLAN

Lecture

Course Particulars	
CR317	Title: Information Retrieval

	Session Particulars	
#: 6	Title: Operations on Text and Multimedia Properties	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*		
#	Outcome Description	
1	Multimedia	
2	Formats	
3	Textual Images	
4	Graphic and Virtual Reality	

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Designation: Course Coordinator Name: Ms. Lamiaa Mostafa

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Approved by:

Designation: Program Manager Name: Dr.Walid Abdelmoez

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SESSION PLAN

Lecture

Course Particulars	
CR317	Title: Information Retrieval

Session Particulars		
#: 7	Title: Revision	Hrs: 2Hrs

	LEARNING OUTCOMES / ABILITIES GAINED*		
#	Outcome Description		
1	Revision on previous topics		
1			

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Designation: Course Coordinator Name: Ms. Lamiaa Mostafa

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Designation: Program Manager Name: Dr.Walid Abdelmoez

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SESSION PLAN

Lecture

Course Particulars	
CR317	Title: Information Retrieval

I	Session Particulars		
	#: 8	Title: Information Theory	Hrs: 2Hrs

	LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description	
1	Text Formats	
2	Information Theory	
3	Text Compression (Coding)	
4	Text Operations	
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Designation: Course Coordinator Name: Ms. Lamiaa Mostafa

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SESSION PLAN

Lecture

Course Particulars	
CR317	Title: Information Retrieval

Session Particulars		
#: 9	Title: Applications on Indexing and Searching	Hrs: 2Hrs

	LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description	
1	Inverted Files	
2 3	Suffix trees	
3	Suffix arrays	
4	Signature Files	

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Designation: Course Coordinator Name: Ms. Lamiaa Mostafa

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Designation: Program Manager Name: Dr.Walid Abdelmoez

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SESSION PLAN

Lecture

Course Particulars	
CR317	Title: Information Retrieval

Session Particulars		
#: 10	Title: Exercises on Parallel and Distributed IR	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*		
#	Outcome Description	
1	Introduction to Parallel IR	
2	Parallel Computing taxonomy	
3	Parallel Computing Performance Measures	
4	Parallel IR (MIMD Architecture)	
5	IR Parallel Multitasking	
6	IR Partitioned Parallel Processing	
7	Distributed Computing	
8	Distributed IR	

Prepared by:

Designation: Course Coordinator Name: Ms. Lamiaa Mostafa

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Designation: Program Manager Name: Dr.Walid Abdelmoez

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SESSION PLAN

Lecture

Course Particulars	
CR317	Title: Information Retrieval

Session Particulars		
#: 11	Title: Visualization and User Interface	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*			
#			
1	Human-Computer Interaction		
2	Design Principles		
3	The Role of Visualization		
4	Evaluating Interactive Systems		
5	Information Access Process		
6	Models of Interaction		
7	Non-Search Parts of the Information Access Process		
8	Starting Points		
9	Lists of collections		
10	Overviews		
11	Examples, Dialogs, and Wizards		
12	Automated Source Selection		

Prepared by:

Designation: Course Coordinator Name: Ms. Lamiaa Mostafa

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Date: 15/8/2010

Approved by:
Designation: Program Manager Name: Dr.Walid Abdelmoez

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SESSION PLAN

Lecture

Course Particulars	
CR317	Title: Information Retrieval

Session Particulars		
#: 12	Title: Visualization and User Interface	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*			
#			
1	Query Specifications		
2	Boolean Queries		
3	Command Line, Forms and Menus		
4	Faceted Queries		
5	Phrases and Proximity		
6	Natural Language and Free Text Queries		
7	Context		
8	Document Surrogates		
9	Query Term Hit within Document Content		
10	Query Term Hits between Documents		
11	Using Hyper Links to organize Retrieval Results		
12	Tables		
13	Using Relevance Judgements		
14	Example Systems		

Prepared by:

Designation: Course Coordinator Name: Ms. Lamiaa Mostafa

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Designation: Program Manager Name: Dr.Walid Abdelmoez

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SESSION PLAN

Lecture

Course Particulars	
CR317	Title: Information Retrieval

	Session Particulars	
#: 13	Title: Operations on Web Searching	Hrs: 2Hrs

Learning Outcomes / Abilities Gained*
Outcome Description
Overview of Web search engines
Web Search History
Ranking in Web Search Engines
Web challenges for IR
Web Archiving
System Architecture of a Web Search Engine
Web Search Engine Spiders
Web Search Usage Patterns
Towards Semantic Search Engines
Overview of Web search engines

Prepared by:

Designation: Course Coordinator Name: Ms. Lamiaa Mostafa

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Approved by:

Designation: Program Manager Name: Dr.Walid Abdelmoez

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SESSION PLAN

Lecture

	Course Particulars
CR317	Title: Information Retrieval

	Session Particulars	
#: 14	Title: Exercises on Writing a Technical Report	Hrs: 2Hrs

	LEARNING OUTCOMES / ABILITIES GAINED*
#	Outcome Description
1	Structure of a Technical Report
2	From Idea to Paper
3	Vocabulary
4	Sentences and Punctuation
5	Paragraphs and Format
6	Good Style
7	The Presentation of Written Information
8	Key Steps to Successful Group Work

Prepared by:

Designation: Course Coordinator Name: Ms. Lamiaa Mostafa

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Designation: Program Manager Name: Dr.Walid Abdelmoez

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SESSION PLAN

Lecture

	Course Particulars
EC115(CR111)	Title: Discrete Mathematics

		Session Particulars	
#: 1	15	Title: Revision	Hrs: 2Hrs

	LEARNING OUTCOMES / ABILITIES GAINED*
#	Outcome Description
1	Revising the following Ideas:
2	Information Retrieval and Data Mining
3	Strategies and Algorithms from Al and IR
4	Clustering and Ranking in Web Search
5	The Unknown Web Search Engines
6	Web 2.0 and new ways for Searching the Web
7	Privacy in Web Search
8	Web Recommender System
9	Social Networking and Searching Human Roles
10	Future of User Interfaces
11	IR in Medical Informatics
12	Developing a small Web Search Engine (Programming)

Prepared by:

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