



College/Institute/Centre: Management and Technology
 Department of: Business Information Systems

SESSION PLAN

Section

COURSE PARTICULARS	
CR317	Title: Information Retrieval

SESSION PARTICULARS		
#: 1	Title: Introduction to IR	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
.....	Course scope
.....	Why Information Retrieval and Search Engines
.....	Basic Concepts of IR
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Prepared by

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 Date: 15/8/2010

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COURSE PARTICULARS	
CR317	Title: Information Retrieval

SESSION PARTICULARS		
#: 2	Title: Applications on IR Modeling	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
.....	Introduction to Retrieval Models
.....	Models Classification
.....	Retrieval Tasks
.....	Class Information Retrieval Models – Basic Concepts
.....	The Boolean Model
.....	The Vector Model
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COURSE PARTICULARS	
CR317	Title: Information Retrieval

SESSION PARTICULARS		
#: 3	Title: Applications on IR Modeling Continued	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
.....	The Probabilistic Model
.....	Brief Comparison of Classic Models
.....	Non-Overlapping Model
.....	Proximal Nodes Model
.....	Flat Browsing
.....	Structure Guided Browsing
.....	The Hypertext Model
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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
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COURSE PARTICULARS

CR317	Title: Information Retrieval
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SESSION PARTICULARS

#: 5	Title: Operations on Text and Multimedia Languages	Hrs: 2Hrs
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LEARNING OUTCOMES / ABILITIES GAINED*

#	Outcome Description
.....	Metadata
.....	Descriptive metadata
.....	Semantic metadata
.....	Web metadata
.....	Markup Language
.....	SGML
.....	HTML
.....	XML
.....	DTD
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COURSE PARTICULARS

CR317	Title: Information Retrieval
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SESSION PARTICULARS

#: 6	Title: Operations on Text and Multimedia Properties	Hrs: 2Hrs
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LEARNING OUTCOMES / ABILITIES GAINED*

#	Outcome Description
.....	Multimedia
.....	Formats
.....	Textual Images
.....	Graphic and Virtual Reality
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COURSE PARTICULARS	
CR317	Title: Information Retrieval

SESSION PARTICULARS		
#: 7	Title: Revision	Hrs: 2Hrs

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

CR317	Title: Information Retrieval
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SESSION PARTICULARS

#: 8	Title: Information Theory	Hrs: 2Hrs
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LEARNING OUTCOMES / ABILITIES GAINED*

#	Outcome Description
.....	Text Formats
.....	Information Theory
.....	Text Compression (Coding)
.....	Text Operations
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COURSE PARTICULARS	
CR317	Title: Information Retrieval

SESSION PARTICULARS		
#: 9	Title: Applications on Indexing and Searching	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
.....	Inverted Files
.....	Suffix trees
.....	Suffix arrays
.....	Signature Files
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CR317	Title: Information Retrieval
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SESSION PARTICULARS

#: 10	Title: Exercises on Parallel and Distributed IR	Hrs: 2Hrs
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LEARNING OUTCOMES / ABILITIES GAINED*

#	Outcome Description
.....	Introduction to Parallel IR
.....	Parallel Computing taxonomy
.....	Parallel Computing Performance Measures
.....	Parallel IR (MIMD Architecture)
.....	IR Parallel Multitasking
.....	IR Partitioned Parallel Processing
.....	Distributed Computing
.....	Distributed IR
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CR317	Title: Information Retrieval

SESSION PARTICULARS		
#: 11	Title: Visualization and User Interface	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
.....	Human-Computer Interaction
.....	Design Principles
.....	The Role of Visualization
.....	Evaluating Interactive Systems
.....	Information Access Process
.....	Models of Interaction
.....	Non-Search Parts of the Information Access Process
.....	Starting Points
.....	Lists of collections
.....	Overviews
.....	Examples, Dialogs, and Wizards
.....	Automated Source Selection
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COURSE PARTICULARS	
CR317	Title: Information Retrieval

SESSION PARTICULARS		
#: 12	Title: Visualization and User Interface	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
	Query Specifications
	Boolean Queries
	Command Line, Forms and Menus
	Faceted Queries
	Phrases and Proximity
	Natural Language and Free Text Queries
	Context
	Document Surrogates
	Query Term Hit within Document Content
	Query Term Hits between Documents
	Using Hyper Links to organize Retrieval Results
	Tables
	Using Relevance Judgements
	Example Systems

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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
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CR317	Title: Information Retrieval

SESSION PARTICULARS		
#: 14	Title: Exercises on Writing a Technical Report	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
.....	Structure of a Technical Report
.....	From Idea to Paper
.....	Vocabulary
.....	Sentences and Punctuation
.....	Paragraphs and Format
.....	Good Style
.....	The Presentation of Written Information
.....	Key Steps to Successful Group Work
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CR317	Title: Information Retrieval

SESSION PARTICULARS		
#: 15	Title: Revision	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
.....	Revising the following Ideas:
.....	Information Retrieval and Data Mining
.....	Strategies and Algorithms from AI and IR
.....	Clustering and Ranking in Web Search
.....	The Unknown Web Search Engines
.....	Web 2.0 and new ways for Searching the Web
.....	Privacy in Web Search
.....	Web Recommender System
.....	Social Networking and Searching Human Roles
.....	Future of User Interfaces
.....	IR in Medical Informatics
.....	Developing a small Web Search Engine (Programming)
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