



Course Specification

Course Name: [Multimedia Information Systems]

Course Code: [IS444]

I. Basic Course Information

Major or minor element of program: Major

Department offering the course: [Information Systems Department]

Academic level: [400 Level]

Semester in which course is offered: [First (fall) Semester]

Course pre-requisite(s): [IS211 Database - 1]

Credit Hours: 3

Contact Hours Through:

Lecture	Tutorial *	Practical *	Total
2.5	0.0	1.5	4.0

* 1.5 hours for **either** Tutorial or Practical

Approval date of course specification: [September 2014]

II. Overall Aims of Course

[This course explains how we can deal with the different media in a special database. We can see the technologies of inserting, deleting and updating Images, Video, Audio, and documents data in Multimedia databases and the main characteristics of these types of data.]

III. Program ILOs covered by course

Program Intended Learning Outcomes (By Code)			
Knowledge & Understanding	Intellectual Skills	Professional Skills	General Skills
[K17,K18,K22]	[I13,I16]	[P13,P16,P17,P22]	[G2,G3]



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IV. Intended Learning Outcomes of Course (ILOs)

a. Knowledge and Understanding

On completing the course, students should be able to:

- K.1 [Explain the principles, applications, trends, and pertinent issues of Multimedia information systems and sciences.
- K.2 Obtain data such as that focused on images, video, audio and documents databases.
- K.3 Illustrate different database recovery techniques.]

b. Intellectual/Cognitive Skills

On completing the course, students should be able to:

- I.1 [Increase proficiency in communicating objectives and results of research and production conducted with Multimedia information systems.
- I.2 Solve problems with multimedia databases analysis by using Multimedia software.]

c. Practical/Professional Skills

On completing the course, students should be able to:

- P.1 [Use Multimedia information systems software to solve problems with spatial analysis.
- P.2 Manipulate multimedia data to make an informed decision.
- P.3 Construct multimedia database with different languages.
- P.4 Apply tools to solve problems associated with multimedia databases.]

d. General and Transferable Skills

On completing the course, students should be able to:

- G.1 Enhance team working skills.
- G.2 Retrieve different multimedia information.

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V. Course Matrix Contents

	Main Topics / Chapters	Duration (Weeks)	Course ILOs Covered by Topic (By ILO Code)			
			K & U	I.S.	P.S.	G.S.
1-	[Multidimensional data structure]	[3]	[All]	[All]	[All]	[]
2-	[Images databases]	[3]	[All]	[All]	[All]	[]
3-	[Video database]	[2]	[All]	[All]	[All]	[G2]
4-	[Audio databases]	[1]	[All]	[All]	[All]	[G1,G2]
5-	[Document Database]	[3]	[All]	[All]	[All]	[G1,G2]
6-	[Architecture of Multimedia database structure]	[2]	[All]	[All]	[All]	[G1]
	Net Teaching Weeks	13				



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VI. Course Weekly Detailed Topics / hours / ILOs

Week No.	Sub-Topics	Total Hours	Contact Hours	
			Theoretical Hours	Practical Hours *
1	Multimedia Data Structures	2.5	2.5	
2	2-d tree, Mx-Tree	4	2.5	1.5
3	Point-Quad tree	4	2.5	1.5
4	R-tree	4	2.5	1.5
5	Document Database	4	2.5	1.5
6	Tv-Trees	4	2.5	1.5
7	Midterm Exam			
8	Image Database	4	2.5	1.5
9	Image Database	4	2.5	1.5
10	Audi Database	4	2.5	1.5
11	Video Database	4	2.5	1.5
12	Video Database	4	2.5	1.5
13	Architecture of Multimedia Database	4	2.5	1.5
14	Architecture of Multimedia Database	4	2.5	1.5
15	Final Exam			
Total Teaching Hours		51	33	18

* No Practical/Tutorial during the first week of the semester

VII. Teaching and Learning Methods

Teaching/Learning Method	Selected Method	Course ILOs Covered by Method (By ILO Code)			
		K & U	Intellectual Skills	Professional Skills	General Skills
Lectures & Seminars	*	All	All		
Tutorials	*	All	All		
Computer lab Sessions	*			All	
Practical lab Work	*			All	G2
Reading Materials	*			All	
Web-site Searches	*			All	G2
Research & Reporting					
Problem Solving / Problem-based Learning					
Projects					
Independent Work	*			All	G2
Group Work					
Case Studies					
Presentations	*			All	G1,G2
Simulation Analysis					
Others (Specify):					



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VIII. Assessment Methods, Schedule and Grade Distribution

Assessment Method	Selected Method	Course ILOs Covered by Method (By ILO Code)				Assessment Weight / Percentage	Week No.
		K & U	I.S.	P.S.	G.S.		
Midterm Exam	*	All	All			20%	7
Final Exam	*	All	All			60%	15
Quizzes	*			All		5%	3,5
Course Work							
Report Writing							
Case Study Analysis							
Oral Presentations							
Practical	*			All	G1	5%	10
Group Project	*			All	G1	10%	12
Individual Project							
Others (Specify):							

IX. List of References

Essential Text Books	<ul style="list-style-type: none"> Principles of Multimedia database systems, V.S.Subrahmanian , 2003
Course notes	<ul style="list-style-type: none"> None
Recommended books	<ul style="list-style-type: none"> None
Periodicals, Web sites, etc ...	<ul style="list-style-type: none"> IEEE ACM Science Direct

X. Facilities required for teaching and learning

<p>List the facilities required</p> <ul style="list-style-type: none"> Data Show White Board DBMS
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Course coordinator:[Dr. Ayman Taha]

Head of Department:[Ass. Prof. Ehab Ezzat]

Date: [September 2014]