

Kingdom of Saudi Arabia
The National Commission for Academic Accreditation & Assessment

440CIS-3
Multimedia Technologies

Course Specification
First Semester 2016-2017

Course Specification

Institution : Najran University	Date of Report : 05-May-2017
College/Department : College of Computer Science and Information Systems, Department of Information Systems	

A. Course Identification and General Information

1. Course title and code : Multimedia Technologies, 440CIS-3		
2. Credit Hours : 3		
3. Programs : Bachelor of Information Systems		
4. Name of the faculty member responsible for the course: Mr. Yahya Ali Abdelrahman		
5. Level of the Course offered : Level - 7		
6. Pre-requisites for this course : N/A		
7. Co-requisites for this course : N/A		
8. Location : Male Campus		
9. Mode of Instruction :		
a. Traditional classroom	<input type="checkbox"/> What percentage?	<input type="text"/>
b. Blended (traditional and online)	<input checked="" type="checkbox"/> What percentage?	<input type="text" value="100"/>
c. e-Learning	<input type="checkbox"/> What percentage?	<input type="text"/>
d. Correspondence	<input type="checkbox"/> What percentage?	<input type="text"/>
e. Other	<input type="checkbox"/> What percentage?	<input type="text"/>
Comments:		

B. Objectives

1. Understand basic multimedia concepts, devices ,applications ,authoring compression , Quality of Service ,Multimedia network and GIS concept the current trends in multimedia
2. Calculate storage size of image ,audio and video (Black and white ,colour map or gray scale and true color)
3. Solve simple compression using Huffman coding Algorithm
4. Create Macromedia Flash, animations and learning interactions
5. Apply the leaned concept of multimedia in small project.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should

1. Topics to be Covered

List of Topics	No. of Weeks	Contact Hours
1. Introduction to Multimedia Technology	1	2
2. WWW	1	1
3. Multimedia system ,Multimedia Components	1	4
4. Multimedia Data Basics	1	2
5. Graphic and image Data Representation and file extensions	1	4
6. Compression Using Run-length and Haffman Code	1	4
7. Compression presentation and Method (image ,Audio ,Video)	1	4
8. ATM Network and QoS 2	1	4
9. Optimal Memory “ Media Server	1	2
10. Multimedia Authoring Concepts and Tools 2	1	4
11. Access Networks and Techniques (UMTS)	1	2
12. Software throw server / Client and	1	2
13. concept of GIS/GPS	1	2

2. Course components (total contact hours and credits per semester):

	Lecture	Tutorial	Laboratory	Practical	Other	Total
Contact Hours	37	16	16			66
Credits	2					3

3. Additional private study/learning hours expected for students per week.

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4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Method
1.0	Knowledge		
1.1		Lectures,	First Midterm Exam, Second Midterm Exam, Quiz 1 and Quiz 2, Theory Assignments, Tasks Assignment (Participation,, Final Exam,
2.0	Cognitive		
2.1		Lectures,	
2.2		Lectures, Small Group Discussion,	First Midterm Exam, Second Midterm Exam, Quiz 1 and Quiz 2, Theory Assignments, Tasks Assignment (Participation,, Final Exam,
2.3		Lectures, Debate, Small Group Work, Small Group Discussion,	Second Midterm Exam, Quiz 1 and Quiz 2, Theory Assignments, Tasks Assignment (Participation,, Final Exam,
3.0	Interpersonal		
3.1		Lectures, Debate, Small Group Discussion,	First Midterm Exam, Second Midterm Exam, Quiz 1 and Quiz 2, Tasks Assignment (Participation,, Final Exam,
4.0	Communication		
4.1		Lectures, Lab Demonstrations, Projects,	Reports (Report 1, Report 2, Fin, Project, Lab Final Exam,
5.0	Psychomotor		
5.1	Not applicable to this course		

5. Schedule of Assessment Tasks for Students During the Semester

	Assessment task	Week Due	Proportion of Total Assessment
1.	First Midterm Exam	5	15 %

2.	Second Midterm Exam	8	15 %
3.	Quiz 1 and Quiz 2	3 an	10 %
4.	Theory Assignments	3..	1 %
5.	TasksAssignment (Participation,	3..	2 %
6.	Reports (Report 1, Report 2, Fin	1...	2 %
7.	Project	1..	3 %
8.	Lab Final Exam	12	12 %
9.	Final Exam	14	40 %

D. Student Academic Counseling and Support

1. Office Hour 10 hours per week

E. Learning Resources

1. List Required Textbooks
 - Ze-Nian Li ;Mark S. Drew;Jiangchuan Liu: Fundamentals of Multimedia ISBN 978-3-319-05290-8 Springer Cham Heidelberg New York Dordrecht London 2014 Second Edition R. Steinmetz; K. Nahrstedt: Fundamentals of Multimedia, Vol. 1: Media Coding and Content Processing. Prentice Hall: 2002, ISBN: 0-13-031399-8
2. List Essential References Materials (Journals, Reports, etc.)
 - Tay Vaughan Multimedia Making It Work New York Chicago San Francisco Lisbon London 2010
 - Prabhat K. Andleigh, Kiran Thakrar ,Multimedia Systems Design, lasts editions
 - N. Chapman; J. Chapman: Digital Multimedia. (2nd ed.), Wiley 2004, ISBN: 0-470-85890-7.
3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
 - Ze-Nian Li â€ Mark S. Drew Jiangchuan Liu : Fundamentals of Multimedia, Second Edition Springer Cham Heidelberg New York Dordrecht London Prentice Hall: 2014, ISBN 978-3-319-05289-2 ISBN 978-3-319-05290-8 (eBook)
4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)
 - https://lms.nu.edu.sa/webapps/blackboard/execute/modulepage/view?course_id=_26213_1&cmp_tab_id=_30710_1&editMode=true&mode=cpview
5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.
 - R. Steinmetz; K. Nahrstedt: Fundamentals of Multimedia, Vol. 1: Media Coding and Content Processing. Prentice Hall: 2002, ISBN: 0-13-031399-8
 - â€ Prabhat K. Andleigh, Kiran Thakrar ,Multimedia Systems Design, lasts editions
 - â€ N. Chapman; J. Chapman: Digital Multimedia. (2nd ed.), Wiley 2004, ISBN: 0-470-85890-7.
 - â€ K. R. Rao; Z. S. Bojkovic; D. A. Milovanovic: Multimedia Communication Systems: Techniques, Standards, and Networks. Prentice Hall 2002, ISBN: 0-13-031398-X
 - â€ Pete Bettinger, Michael G Wing, latest edition, Geographic Information System 2003

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)
<p>1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)</p> <p>- Lecture Rooms with 30 seats with smart table, Mic, headset, camera, Speaker, PC, Auto Projector with Screen and a white board or An smart board</p> <p>For lab require all latest versions of Software.</p> <p>Chairs are placed in the form of U</p> <p>Library is required</p>
<p>2. Computing resources (AV, data show, Smart Board, software, etc.)</p> <p>- For lab require all latest versions of Software.</p> <p>Chairs are placed in the form of U</p> <p>Library is required</p>
<p>3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)</p> <p>-</p>

G. Course Evaluation and Improvement Processes

1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching		
Methods	Ways	Plan of Action
2. Other Strategies for Evaluation of Teaching by the Program/Department Instructor		
<p>1. Peer consultation on teaching</p> <p>2. Departmental council discussions</p> <p>Discussions within the group of faculty teaching the course</p>		
3. Processes for Improvement of Teaching		
<p>2. Comparison of the course content with similar courses offered in others colleges</p> <p>3. Updating of the learning resources according to later developments in the domain of programming concepts.</p> <p>4. Using modern technologies in teaching and providing additional support to students.</p> <p>5. Workshops to facilitate the exchange of experiences amongst faculty members</p>		
4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)		
<p>1. Check mark of the examination paper by an independent faculty member</p>		
5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.		

Teaching Staff : Mr. Yahya Ali Abdelrahman

Signature : _____

Date of Report Completed : 26-Jan-2017

Received by : _____

Dean/Department Head

Signature : _____

Date : _____

