



Ministry of Higher Education and
Scientific Research - Iraq
University of Baghdad
College of Engineering
Department of Electrical Engineering



MODULE DESCRIPTOR FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	PRINCIPLES OF DIGITAL MEDIA		Module Delivery
Module Type	CORE		Theory Lab. Tutorial Lecture Practical Seminar
Module Code	PRDM125		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	1	Semester of Delivery	
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	Dr. Matheel Emaduldeen Teaba wala aldeen khairi		e-mail Matheel.e. abdulmunim@uotechnology.edu.iq teaba.w.khairi@uotechnology.edu.iq
Module Leader's Acad. Title	Professor	Module Leader's Qualification	Ph.D.
Module Tutor	None	e-mail	None
Peer Reviewer Name		e-mail	
Review Committee Approval	01/06/2023	Version Number	1.0

Relation With Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Aims أهداف المادة الدراسية	<ol style="list-style-type: none"> 1. Student learns principles of digital media concepts and multimedia tools . 2. Student learns basic concept of handling digital media in practical by dealing with lab works simple projects . 3. Student learns the right way to use media and avoid wrong effects. 		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ol style="list-style-type: none"> 1. Recognize Digital media concepts. 2. List the various content of digital media. 3. Summarize what is meant by media concepts and how does it implemented in digital form. 4. Define Hypermedia and hypertext . <li style="background-color: yellow;">5. Define graphics ,video , text and image in digital form. 6. Discuss the positive and negative effects of digital media. 		
Indicative Contents المحتويات الإرشادية	<p>Indicative content includes the following.</p> <ul style="list-style-type: none"> ➤ Introduction to multimedia. ➤ Multimedia and Hypermedia. ➤ Multimedia Authoring and Tools. ➤ Introduction to Text. ➤ Basics of Computer Graphics. ➤ Introduction to Digital Image. ➤ Basics of Digital audio. ➤ Fundamental concepts in Digital video. ➤ Multimedia Compression techniques. 		
Learning and Teaching Strategies			

استراتيجيات التعلم والتعليم

Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students. التقنيات التي تستخدم.
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Student Workload (SWL)

الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	80	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً	5.3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	45	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	3
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5, 10	LO #1, 2, 10 and 11
	Assignments	1	10% (10)	2, 12	LO # 3, 4, 6 and 7
	Projects / Lab.	1	10% (10)	Continuous	
	Report	1	10% (10)	13	LO # 5, 8 and 10
Summative assessment	Midterm Exam	2 hr	10% (10)	7	LO # 1-7
	Final Exam	2hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الأسبوعي النظري

	Material Covered
Week 1	Introduction to multimedia.
Week 2	Multimedia and Hypermedia.

Week 3	Multimedia Authoring and Tools.
Week 4	Introduction to Text.
Week 5	Basics of Computer Graphics.
Week 6	Introduction to Digital Image.
Week 7	Digital Image Operations
Week 8	Multimedia Applications
Week 9	Basics of Digital audio.
Week 10	Fundamental concepts in Digital audio.
Week 11	Fundamental concepts in Digital video 1.
Week 12	Fundamental concepts in Digital video 2.
Week 13	Multimedia Compression techniques.
Week 14	Multimedia Networks Communications.
Week 15	Network Types
Week 16	Final Exam

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Lab 1: Introduction to Multimedia technologies and tools
Week 2	Lab 2: Introduction to Matlab
Week 3	Lab 3: Reading text file and introduction to hyperlink
Week 4	Lab 4: Reading image and image types processing 1
Week 5	Lab 5: Reading image and image types processing 2
Week 6	Lab 6: Reading image and image types processing 3
Week 7	Lab 7: RGB handling ,Gray scale Image , Binary image
Week 8	Lab8 : Reading video and displaying video frames
Week 9	Lab9 : Introduction to video frame processing
Week 10	Lab10 : Read Audio file ,mono and stereo
Week 11	Lab11 : Audio file processing , Audio file signal
Week 12	Lab12 : Introduction to HTML
Week 13	Lab13 : Text and image simple compression

Week 14	Lab14 : Project for evaluation
Week 15	Lab15 : Project for evaluation

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Ze-Nian Li and Mark S Drew," Fundamentals of Multimedia ", Prentice Hall,2004.	Yes
Recommended Texts	Tay Vaughan" Multimedia: Making it work", Eighth Edition, The McGraw-Hill companies,2010.	No
Websites		

APPENDIX:

GRADING SCHEME مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	مقبول بقرار	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note:				
NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				

