



Ministry of Higher Education and  
Scientific Research - Iraq  
University of Technology  
Department of Computer Science  
Information System Branch



## MODULE DESCRIPTOR FORM

### نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
<b>Module Title</b>	MULTIMEDIA FILE FORMATS	<b>Module Delivery</b>	
<b>Module Type</b>	CORE	<b>-Theory Lecture -Lab -PracticalSeminar</b>	
<b>Module Code</b>	MUFF224		
<b>ECTS Credits</b>	4		
<b>SWL (hr/sem)</b>	100		
<b>Module Level</b>	UGII		
<b>Administering Department</b>		<b>College</b>	Computer science
<b>Module Leader</b>	Prof.Dr.Shaimaa Hameed Shaker	<b>e-mail</b>	Shaimaa.h.shaker@uotechnology.edu.iq
<b>Module Leader's Acad. Title</b>	Professor	<b>Module Leader's Qualification</b>	Ph.D in computer science-pattern recognition
<b>Module Tutor</b>	Teaba wala aldeen khairi	<b>e-mail</b>	teaba.w.khairi@uotechnology.edu.iq
<b>Peer Reviewer Name</b>		<b>e-mail</b>	
<b>Review Committee Approval</b>		<b>Version Number</b>	

Relation With Other Modules			
العلاقة مع المواد الدراسية الأخرى			
<b>Prerequisite module</b>	Principles of digital media	<b>Semester</b>	2

Co-requisites module	multimedia technology	Semester	3
<b>Module Aims, Learning Outcomes and Indicative Contents</b> أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
<b>Module Aims</b> أهداف المادة الدراسية	Learn student the principles of digital file format, analysis and management of file format(text,graphics,video,and audio)		
<b>Module Learning Outcomes</b> مخرجات التعلم للمادة الدراسية	<ol style="list-style-type: none"> <li>1- Enable the student to know and understand the theoretical principles of file format and turn them into programs to deal with data.</li> <li>2- The student describes the problem using one of the model to implement the programs and algorithms</li> <li>3- Enable the student to know and understand the practical applications of file format manipulation and all the actions to process these files.</li> <li>4- Logical thinking: Giving the student tasks to know and practice to deal with video and images process .</li> </ol>		
<b>Indicative Contents</b> المحتويات الإرشادية	<ul style="list-style-type: none"> <li>- File Formats Definition.</li> <li>- Text File Formats.</li> <li>- Graphics File Formats. + GIF formats</li> <li>- Image Formats. + JPEG , TIFF , BMP , PNG formats</li> <li>- Digital Audio File Formats. + Typical Audio Formats(GSM,DCT,VOX, mp3, wma, ra: , ram,dss) + Delivering Audio over a Network(Trade off between desired fidelity and file size ,Streaming Audio)</li> <li>- Digital Video File Formats. + Flash, MPEG, AVI, WMV, and QuickTime formats</li> <li>- Colour in Image and Video</li> <li>- Animation File Formats.</li> <li>- Interactive Multimedia.</li> </ul>		
<b>Learning and Teaching Strategies</b> استراتيجيات التعلم والتعليم			

<b>Strategies</b>	Type something like: 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.
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<b>Student Workload (SWL)</b> الحمل الدراسي للطالب			
<b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطالب خلال الفصل		<b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطالب أسبوعيا	
<b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطالب خلال الفصل		<b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطالب أسبوعيا	
<b>Total SWL (h/sem)</b> الحمل الدراسي الكلي للطالب خلال الفصل			

<b>Module Evaluation</b> تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
<b>Formative assessment</b>	<b>Quizzes</b>	1	10% (10)	5	LO # 1 and 3
	<b>Practical Seminar(Lab).</b>	2	15% (15)	Continuous	LO # 2 , 4 and 5
<b>Summative assessment</b>	<b>Midterm Exam</b>	1 hr	15% (15)	14	LO # 1 to 5
	<b>Final Exam</b>	3hr	60% (60)	16	All
<b>Total assessment</b>			100% (100 Marks)		

<b>Delivery Plan (Weekly Syllabus)</b> المنهاج الاسبوعي النظري	
	<b>Material Covered</b>
<b>Week 1</b>	File Formats Definition.
<b>Week 2</b>	Introduction to Text File Formats.
<b>Week 3</b>	Overview of Graphics File Formats

<b>Week 4</b>	GIF formats and applications
<b>Week 5</b>	Principles of Image Formats.
<b>Week 6</b>	JPEG , TIFF , BMP , PNG formats
<b>Week 7</b>	Digital Audio File Formats
<b>Week 8</b>	Typical Audio Formats(GSM,DCT,VOX, mp3, wma, ra: , ram,dss)
<b>Week 9</b>	Delivering Audio over a Network(Trade off between desired fidelity and file size ,Streaming Audio)
<b>Week 10</b>	Fundamentals of Digital Video File Formats.
<b>Week 11</b>	Flash, MPEG, AVI, WMV, and QuickTime formats
<b>Week 12</b>	Principles of Colour in Image and Video
<b>Week 13</b>	Overview of Animation File Formats.
<b>Week 14</b>	Definition and fundamentals of Interactive Multimedia
<b>Week 15</b>	
<b>Week 16</b>	<b>Final Exam</b>

### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Week	
<b>Week 1</b>	Text File Formats :PDF
<b>Week 2</b>	Text File Formats :DOC
<b>Week 3</b>	Text File Formats :PPT
<b>Week 4</b>	Image Formats:JPEG
<b>Week 5</b>	Image Formats:BMP
<b>Week 6</b>	Image Formats:PNG
<b>Week 7</b>	Graphics File Formats:GIF formats
<b>Week 8</b>	Digital Audio File Formats:GSM
<b>Week 9</b>	Digital Audio File Formats:MP3
<b>Week 10</b>	Digital Audio File Formats:WAV
<b>Week 11</b>	Digital Video File Formats:MPEG
<b>Week 12</b>	Digital Video File Formats:AVI
<b>Week 13</b>	Digital Video File Formats:WMV
<b>Week14</b>	Animation File Formats:SVG animation format

## Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
<b>Required Texts</b>	<ul style="list-style-type: none"> <li>- Encyclopedia of graphics file formats, James D., 2020.</li> <li>- Introduction to Multimedia Systems, Gaurav Bhatnagar, 2001.</li> </ul>	
<b>Recommended Texts</b>	<ul style="list-style-type: none"> <li>- Computer Vision and Image Processing. Scotte E Umbaugh, Ph.D.</li> <li>- Digital Image Processing .Second Edition Rafael C. Gonzalez/University of Tennessee Richard E. Woods Med Data Interactive</li> </ul>	
<b>Websites</b>		

### APPENDIX:

#### GRADING SCHEME

مخطط الدرجات

Group	Grade	التقدير	Marks (%)	Definition
<b>Success Group (50 - 100)</b>	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
<b>Fail Group (0 - 49)</b>	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.