



(Information Technologies) Course Catalogue 2022-2023

Callana	Madat Tadasiad Insti	LL.			
College	Khabat Technical Institute				
Department	Information Technology				
Module Name	Multimedia Processing				
Module Code	MUP302				
Degree	Technical Diploma Bachler				
	High Diploma	Master PhD			
Semester	3 rd				
Qualification	MSc				
Scientific Title	Assistant Lecturer				
ECTS (Credits)	6				
Module type	Prerequisite Core Assist.				
Weekly hours	4				
Weekly hours (Theory)	(2) hr Class (55) hr Workload				
Weekly hours (Practical)	(2) hr Class (95) hr Workload				
Number of Weeks	12				
Lecturer (Theory)	Sozan Sulaiman Maghdid				
E-Mail	sozan.maghdid@epu.edu.iq				
Lecturer (Practical)	Aram Jawdat Agha				
Email	aram.agha@epu.edu.iq				

Course Book

Course Description	Multimedia Technologies is an indispensable part of modern computing environments. This course will explain the technologies underlying digital images, videos and audio contents, including various compression techniques and standards, and the issues to deliver multimedia content over the Internet.			
Course objectives	 Program students who want to broadening their knowledge by including multimedia studies. Visiting program students looking for a foundation from which to pursue advanced topics in multimedia studies. Professional developers who want a technical foundation for developing applications with distributed multimedia components. Networks professionals who needs to manage multimedia delivery service. 			
Student's obligation	 Students attending classes regularly. Group work. Doing assignments. Class activities. 			
Required Learning Materials	ProjectorWhite boardPower Point PresentationScientific Debate			

		Task	Weight (Marks)	Due Week	Relevant Learning Outcome	
	Paper Review		0			
	Homework		5			
	Ass	Class Activity	2			
	Assignments	Report	10			
		Seminar	10			
Evaluation	ıts	Essay	0			
		Projects	0			
	Quiz		8			
	Lab.		10			
	Midterm Exam (T)		10			
	Midterm Exam (P)		15			
	Final Exam (T)		10			
	Final Exam (P)		15			
	Total		100			
Specific learning outcome:			dentify the essential features of graphics/image data ypes, file formats, and color models in images and video. Explain the technical details of multimedia data epresentations. Perform a comparative analysis of the major methods and algorithms for multimedia data compression. Explain the technical details of popular multimedia ompression standards. Configure and manage multimedia content delivery platforms.			
S. 2. A		Drew , 2004 ADOB FLASH	by Pearson I PROFE e official t	nedia, by Ze-Nian Li and Mark n Education International. SSIONAL CS5 (CLASSROOM IN raining workbook from Adob system		

Course topics (Theory)	Week	Learning Outcome
Multimedia Introduction	1	Identify the essential Elements of multimedia
Text Basics	2	Technical detail of multimedia elements & Manage
Images & Graphics Introduction	3	Technical detail of multimedia elements & Manage
Images & Graphics I	4	Technical detail of multimedia elements & Manage
Color Basics	5	Technical detail of multimedia elements & Manage
Color II	6	Technical detail of multimedia elements & Manage
Audio	7	Technical detail of multimedia elements & Manage
Animation Basics	8	Technical detail of multimedia elements & Manage
Animation I	9	Technical detail of multimedia elements & Manage
Video I	10	Technical detail of multimedia elements & Manage
Video II	11	Technical detail of multimedia elements & Manage
Data compression	12	Analysis of the major methods and algorithms for multimedia data compression.

Course topics (Practical)	Week	Learning Outcome
Introduction. Starting flash;	1	Identify the flash program
Exploring the Flash Screen;		
Stage and Work Area .		
Properties window;	2	An application on the program using
Working with graphics;		operating tools
Timeline.		
Introduction to motion editor;	3	An application on the program using
Creating frame and key frame;		operating tools
Giving the shape an action.		
Creating and working with a text box;	4	An application on the program using
Using Alignments ;		operating tools
Using position and size.		
Using fill and stroke;	5	An application on the program using
Testing the scene;		operating tools
Working with symbols.		

Using snap in an object; Object browsing; Using library.	6	An application on the program using operating tools			
Layers Properties.	7	An application on the program using operating tools			
Importing movie; Sound and image in to library; Using sounds.	8	An application on the program using operating tools			
Creating symbols (Movie Clip); Creating symbols (Graphic).	9	An application on the program using operating tools			
Creating symbols (Button); Creating button motion (up, over, down, hit).	10	An application on the program using operating tools			
Giving button an action; Giving button a sound; Exporting (swf) or (exe) file.	11	An application on the program using operating tools			
Final project	12	Application of all operating tools of the program to implement a project			
1- Define the following:Image file size:Answer:(File size is approximately equal to number of pixels * bit depth)					
2- Put the word (True) or (False) to the	e followin	ng sentences:-			
A (*.png) extension in image is 24 bit im	nages com	pressed using lossy compression. ()			
Answer: (False)					
3- Fill the spaces for the following ser	3- Fill the spaces for the following sentences:-				
The Primary colors consist of (1					
Answer: (Red, Yellow and Blue)					
4- Choose the right answer in the following sentences:-					

If the screen resolution is (1280 * 1024) how much DPI:

a-106.67 b- 105.67 c- 66.67 d-68.67

Answer:

(a)

5- Answer accurately following topics and be brief:

A-Where are used Text elements?

B- What types of thermal colors are used in color schemes?

Answer:

A- Menus for Navigation; Interac

B-	C-	D-	E-	F-
G-	H-	 -	J-	K-

- L- tive Buttons; Fields for Reading; HTML Documents and Symbols and Icons.
- M- The color circle can be divided into warm and cool colors based on the Color Temperature.

- Extra notes:

Making the topics covered in the semester compatible with reality of the educational. Covering more than 80% of the prescribed subjects to improve the scientific level of students and preserve the standardization of diploma programs.

- External Evaluator

I have been reviewed this course book, its perfect and feet for this subject in the level of institute student, so I have no suggestion.

Karwan Hamasaeed Hamasharef

Assistant Lecture (Khabat Technical Institute) Information technology department