

UNIVERSITI TEKNOLOGI MARA

CSC253: INTERACTIVE MULTIMEDIA

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Course Name (English)	INTERACTIVE MULTIMEDIA APPROVED				
Course Code	CSC253				
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MQF Credit	3				
Course	This course will introduce the essential topics in interactive multimedia application				
Description	development. It includes concepts in multimedia, basic multimedia elements such as text, graphics, audio, video, and animation also the requirements of multimedia project development using authoring tools. Besides that, the implications of data storage and retrieval methods and also the role of teamwork in multimedia project development will also be highlighted. It will also discuss on multimedia computer hardware and software, current multimedia authoring tools, file formats, media storage and memory management. Applications of multimedia for the Internet will also be emphasized.				
Transferable Citilis	4. Domesmaturate objlitute identify and outputed colf okille. Impuringly:				
Transferable Skills	Demonstrate ability to identify and articulate self skills, knowledge and understanding confidently and in a variety of contexts. 2. Demonstrate the ability to dream, imagine and visualize. 3. Demonstrate analytical skills using technology.				
Taaahina	Lastinas Lab Wark				
Teaching Methodologies	Lectures, Lab Work				
CLO					
OLO	CLO1 Identify various multimedia elements and the requirements of a multimedia				
	projecť				
	CLO2 Demonstrate appropriate design and social interaction with team members				
	and society through the development of multimedia project				
	CLO3 Demonstrate managerial skills in commercial-based interactive multimedia				
	project				
Pre-Requisite	No course recommendations				
Courses Courses	INO COUISE IECOITITIETIUALIOTIS				
Topics					
1. INTRODUCTION TO MULTIMEDIA					
1.1) Definition					
1.2) Multimedia Terminologies 1.3) Multimedia Delivery Media					
1.4) Usage of Multimedia					
2. DEVELOPMENT OF MULTIMEDIA PROJECT					
2.1) The Stages of a Project					
(2.2) Requirements for	2.2) Requirements for Project				
2.3) The Team	2.3) The Team				
3. TEXT					

- 3. TEXT
 3.1) Importance of Text
 3.2) Attributes of Text
 3.3) Usage of Text In Multimedia
 3.4) Hypertext and Hypermedia
 3.5) Font Editing and Design Tools

4. GRAPHIC

- 4.1) Preparation for Creating Image 4.2) Making Still Images 4.3) 3D Drawing and Rendering 4.4) Colors 4.5) Image File Formats 4.6) Image Editing and Design Tools

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5. SOUND

- 5.1) Introduction to Sound
- 5.2) Digital Audio and MIDI Audio 5.3) MIDI vs Digital Audio
- 5.4) Multimedia System Sounds
- 5.5) Audio File Formats
- 5.6) Adding Sound to Multimedia Project 5.7) Sound Editing Tools

6. VIDEO

- 6.1) Introduction to Video 6.2) How Video Works
- 6.3) Broadcast Video Standards
- 6.4) Analogue Video and Digital Video6.5) Digital Video Containers6.6) Shooting and Editing Video6.7) Nonlinear Editing (NLE)

7. ANIMATION

- 7.1) Introduction to Animation7.2) Principles of Animation
- 7.3) Animation by Computer
- 7.4) Animation File Formats
- 7.5) Animation Tools

8. HARDWARE

- 8.1) Macintosh versus Windows
- 8.2) Connections
 8.3) Memory and Storage Devices
- 8.4) Input Devices
- 8.5) Output Devices

9. MULTIMEDIA AUTHORING TOOLS

- 9.1) Introduction to Multimedia Authoring Tools 9.2) Types of Authoring Tools
- 9.3) Features of Authoring Tools
- 9.4) Cross Platform Authoring Notes

10. THE INTERNET & MOBILE MULTIMEDIA

- 10.1) Internet History 10.2) Internetworking 10.3) Multimedia on Web 10.4) Mobile Multimedia
- 10.5) Mobile Hardware

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Assessment Breakdown	%
Continuous Assessment	100.00%

Details of Continuous Assessment				
	Assessment Type	Assessment Description	% of Total Mark	CLO
	Group Project	Audio and Video Production	10%	CLO2
	Group Project	Interactive Multimedia Project using Authoring Tools	30%	CLO2
	Individual Project	Text and Image Designing	10%	CLO3
	Quiz	Quiz 1	5%	CLO1
	Quiz	Quiz 2	5%	CLO1
	Test	Test 1	20%	CLO1
	Test	Test 2	20%	CLO1

Reading List	Recommended Text	Tay Vaughan 2014, <i>Multimedia: Making It Work, Ninth Edition</i> , 9 Ed., McGraw-Hill Education [ISBN: 9780071832885]	
	Reference Book Resources	Ivan Vidal,Ignacio Soto,Albert Banchs,Jaime Garcia-Reinoso,Ivan Lozano,Gonzalo Camarillo 2019, Multimedia Networking Technologies, Protocols, and Architectures, Artech House [ISBN: 9781630813796]	
		Creative Multimedia Team 2017, <i>Interactive Multimedia 'A Hands-On Approach'</i> , 1 Ed., Delima Ilmu Enterprise Malaysia [ISBN: 9789675748479]	
		Ilpo Koskinen 2017, <i>Mobile Multimedia in Action</i> , Routledge [ISBN: 9781351504973]	
		Gerald Friedland,Ramesh Jain 2014, <i>Multimedia Computing</i> , Cambridge University Press [ISBN: 9780521764513]	
Article/Paper List	This Course does not have any article/paper resources		
Other References	This Course does not have any other resources		

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