

UNIVERSITI TEKNOLOGI MARA

CSC253: INTERACTIVE MULTIMEDIA

Course Name (English)	INTERACTIVE MULTIMEDIA APPROVED
Course Code	CSC253
MQF Credit	3
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Course Description	This course will introduce the essential topics in interactive multimedia application 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 Skills	1. 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.
Teaching Methodologies	Lectures, Lab Work
CLO	
	CLO1 Identify various multimedia elements and the requirements of a multimedia project
	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 Courses	No course recommendations
Topics	
1. INTRODUCTION	TO MULTIMEDIA
1.1) Definition 1.2) Multimedia Term	inologies
1.3) Multimedia Deliv 1.4) Usage of Multim	ery Media
	DF MULTIMEDIA PROJECT Project
3. TEXT 3.1) Importance of Te 3.2) Attributes of Tex	
3.3) Usage of Text In 3.4) Hypertext and H 3.5) Font Editing and	Multimedia ypermedia
4. GRAPHIC 4.1) Preparation for C 4.2) Making Still Imag 4.3) 3D Drawing and 4.4) Colors 4.5) Image File Form 4.6) Image Editing ar	ges Rendering ats

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 Video
 6.5) Digital Video Containers
 6.6) Shooting and Editing Video
 6.7) Nonlinear Editing (NLE)

7. ANIMATION

- 7.1) Introduction to Animation
- 7.2) 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) Connections8.3) Memory and Storage Devices
- 8.4) Input Devices

8.5) Output Devices

9. MULTIMEDIA AUTHORING TOOLS

- 9.1) Introduction to Multimedia Authoring Tools9.2) 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

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	Fay Vaughan 2014, <i>Multimedia: Making</i> 9 Ed., McGraw-Hill Education [ISBN: 97	y It Work, Ninth E 80071832885]	Edition,
Reading List	Text Reference Book Resources	Tay Vaughan 2014, <i>Multimedia: Making</i> 9 Ed., McGraw-Hill Education [ISBN: 97 van Vidal,Ignacio Soto,Albert Banchs, Garcia-Reinoso,Ivan Lozano,Gonzalo C Multimedia Networking Technologies, Artech House [ISBN: 978	80071832885] Jaime Camarillo 2019, Protocols, and	Edition,
Reading List	Text Reference Book Resources	9 Ed., McGraw-Hill Education [ISBN: 97 van Vidal,Ignacio Soto,Albert Banchs, Garcia-Reinoso,Ivan Lozano,Gonzalo O Multimedia Networking Technologies,	80071832885] Jaime Camarillo 2019, Protocols, and 1630813796] ctive Multimedia	Ά
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This Course does not have any other resources

Other References