

# **Advanced Multimedia**

# **Module Information**

**2022.01, Approved** 

# **Summary Information**

Module Code	6627YCOM
Formal Module Title	Advanced Multimedia
Owning School	Computer Science and Mathematics
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 6
Grading Schema	40

#### **Teaching Responsibility**

LJMU Schools involved in Delivery

LJMU Partner Taught

#### **Partner Teaching Institution**

Institution Name

YPC International College (Kolej Antarabangsa YPC)

# **Learning Methods**

Learning Method Type	Hours
Lecture	22
Workshop	33

# Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-PAR	PAR	September	12 Weeks

### **Aims and Outcomes**

Aims	To develop a theoretical knowledge of the concepts of advanced media types and the advanced media production techniques and technologies required to design and develop digital media systems.
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#### After completing the module the student should be able to:

#### **Learning Outcomes**

Code	Number	Description
MLO1	1	Critically evaluate the issues related to advanced media production and technologies.
MLO2	2	Appraise and apply the techniques involved in the implementation of an interactive multimedia application.
MLO3	3	Critically evaluate the techniques and challenges behind the design and development of an interactive multimedia application.

### **Module Content**

Outline Syllabus	Rich internet applications: concepts and definitions, modelling approaches, technologies. User experience: concepts, lifecycle and benefit of UX, tools of UX (e.g. user testing, expert review, persona and etc.). Introduction to Media Production –Media Production standards, Video/Audio CODEC and Compression TechniquesHardware and software technologies - Discussion of the technologies required tosupport media productionAdvanced Media Production Technologies: Sound and Video production (capture, format, archiving, streaming, etc), Media player technologies and Codec, Imageand model based scene representations, 3D-modelling from images and video, Media Production online deploymentArchitecting interactive multimedia solution: information architecture design, dynamiccontent, data storage, technology integration, application optimization, security andetc. Advance multimedia scripting: media scripting, interaction scripting, real-timeanimation scripting, data processing and visualization scripting. Workshop session involving the design of a media production artefact in form of avideo, animation, or game and using relevant advanced tools and technologies, through group work.
Module Overview	
Additional Information	This module broadens the awareness of the design and development of interactive multimedia applications such as Rich Internet Applications.

### **Assessments**

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Coursework 1	50	0	MLO1, MLO2
Artefacts	Coursework 2	50	0	MLO2, MLO3

#### **Module Contacts**

#### **Module Leader**

Contact Name	Applies to all offerings	Offerings
Yuanyuan Shen	Yes	N/A

#### Partner Module Team

Contact Name	Applies to all offerings	Offerings