Advanced Interactive Multimedia

Module Information

2022.01, Approved

Summary Information

Module Code	6750YCOM
Formal Module Title	Advanced Interactive 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
Practical	22

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.

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	Introduction to Advanced Multimedia.RIA characteristics.UX lifecycle and concepts.Advanced multimedia tools and technology.Techniques and measuring User Experience.Serious Gaming.Educational Gaming.Introduction to Game-based Learning.Augmented Reality and Multimedia.Ontology Development and Serious Games Ontology.Dynamic Content and XML.Real Time Animation and Visualization.Interpolation and Tweening Libraries.Interaction Design.Architecting Serious Game.Designing Serious Play and Replayability.Economies of Interaction and Analytics.Frameworks for 3D.Real-time Imaging Systems.
Module Overview	
Additional Information	This module equips students with the knowledge in planning and development of RIA using Animate and JavaScript.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Application Development	50	0	MLO1, MLO2
Portfolio	Group Work	50	0	MLO2, MLO3

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Glyn Hughes	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings