

Game Audio

Module Information

2022.01, Approved

Summary Information

Module Code	6543STE
Formal Module Title	Game Audio
Owning School	Engineering
Career	Undergraduate
Credits	10
Academic level	FHEQ Level 6
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery

LJMU Partner Taught

Partner Teaching Institution

Institution Name

Liverpool Institute for Performing Arts

Learning Methods

Learning Method Type	Hours
Lecture	10
Tutorial	10
Workshop	20

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-PAR	PAR	January	12 Weeks

Aims and Outcomes

Aims	This module aims to introduce the basic techniques, skills and ideas needed to design and implement audio designs for computer games. It allows students to build on concepts and ideas studied in Audio Post Production, and apply these using the forms, conventions and professional practices in game audio development. In order to effectively understand audio workflow, the module also introduces students to simple development environments for games.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Employ generic and specialized software platforms to design and implement interactive audio in a game development environment.
MLO2	2	Understand and evaluate the role of sound and music in interactive audio productions.
MLO3	3	Apply professional practice to the collection, organization and presentation of audio assets for game development.

Module Content

Outline Syllabus	Introduction to a Game Engine such as UnityNavigating the Gem Engine Editor – creating and moving objects in 3DCreating and optimizing audio assets for gamesImporting and replacing assets in a Game EngineSound Integration – AudioSource component and introductory Java scriptingUnderstanding and using game engine tools – Gravity and Collision, Rigidbody Objects, RaycastingCreating simple game mechanicsLinking visual processes and audio using scriptingImplementing interactivity in the use and application of spatial enhancement and reverbUsing real-time mixing in a Game EngineModifying hierarchy objects in runtimeIntegrating middleware with a Game EngineThe language of music in gamesInteractivity and music creation / editing – approaches and considerations
Module Overview	
Additional Information	Jon Thornton is the Module Leader (j.thornton@lipa.ac.uk)

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Practice	Practice	100	0	MLO3, MLO1, MLO2

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
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Partner Module Team

Contact Name Applies to all offerings Of	Offerings
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