Desktop Audio 3

Module Information

2022.01, Approved

Summary Information

Module Code	6538STE
Formal Module Title	Desktop Audio 3
Owning School	Engineering
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
Liverpool Institute for Performing Arts

Learning Methods

Learning Method Type	Hours
Lecture	12
Tutorial	5
Workshop	36

Module Offering(s)

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

Aims and Outcomes

Aims	This module is designed to build on the skills and knowledge acquired in Desktop Audio 1 and 2. It aims to provide learners with the knowledge and understanding of more advanced sequencing coupled with a deeper utilisation of samplers and synthesisers that can be incorporated into desktop audio production. Advanced areas of MIDI control will also be explored with the creation of advanced MIDI control environments. This use of MIDI is useful in several areas of music industry such as bespoke MIDI environments within the theatre and live performance settings.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Employ complex software patching and modulation techniques to integrate sampling and synthesis within the desktop audio environment
MLO2	2	Design advanced MIDI control environments to control software devices
MLO3	3	Choose appropriate tools and techniques to create bespoke solutions in a desktop audio environment

Module Content

Outline Syllabus	Advanced SequencingUsing Ableton LiveSampling & Synthesis TheoryUnderstanding waveforms; Building blocks of synthesis – VCAs and VCOs; Envelopes and other modifiers; Filters and resonance; Controlling synthesis by use of modulation; CV and Gates, Frequency modulation and wavetable synthesis Sampling PracticalAdvanced operation and use and integration of software samplersSynthesis PracticalAdvanced use of Reason incorporating Recycle, Use of Native Instruments and Reactor SynthesisersAdvanced MIDIUse of Logic's MIDI environment; designing an advanced virtual control surface manipulating MIDI data with transformers
Module Overview	
Additional Information	Mark Atherton is the Module leader (m.atherton@lipa.ac.uk)

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Practice	Portfolio	40	0	MLO1, MLO2, MLO3
Presentation	Presentation	60	0	MLO1, MLO2, MLO3

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings

Partner Module Team

Contact Name	Applies to all offerings	Offerings