

Liverpool John Moores University

Title: Practical Audio Production
Status: Definitive
Code: **4204AMP** (121881)
Version Start Date: 01-08-2021

Owning School/Faculty: Engineering
Teaching School/Faculty: Engineering

Team	Leader
Tony McKenna	Y
Anthony Lanigan	

Academic Level: FHEQ4 **Credit Value:** 20 **Total Delivered Hours:** 44
Total Learning Hours: 200 **Private Study:** 156

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	18
Practical	18
Tutorial	8

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Practice	AS1	Percussion recording and manipulation	50	
Practice	AS2	Use industry standard audio equipment to produce music to be used with video	50	

Aims

To introduce students to the practical issues arising from Recording audio and Live sound reinforcement

Learning Outcomes

After completing the module the student should be able to:

- 1 Use a DAW to implement drum replacement
- 2 Specify typical acoustic drum sizes and specifications
- 3 Operate industry-standard hardware and software to produce CD quality 16bit 44.1 kHz audio
- 4 Create recorded audio music productions to be used with video

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Perc recording and manip	1	2
Audio equipment	3	4

Outline Syllabus

Audio Mixing Desks, signal flow, mike/line, channel strip, input gain, EQ, Digital Audio Workstations, interfaces, bit rates, buffers, sampling rates
Drum replacement
Health & Safety for audio engineering
Impedance and level matching
Introduction to small-scale live sound reinforcement systems
Pro-Tools, Apple logic pro x
Levels, deciBels (in signals), metering, gain structure
Loudspeakers, Amplifiers, Monitors
Non-linear editing, dubbing and effects using computers
Properties of microphones (types, polar patterns, phantom power)
Properties of the ear and auditory perception
Recording studio equipment & live sound

Learning Activities

Practical sessions and demonstrations including student work groups

Notes

The module encompasses an introduction to the theoretical knowledge and practical skills of audio & music production and to the equipment used in audio production. The module will cover both 'live-broadcast' and 'recorded' production. Students will be required to work both individually and in small groups using equipment to become familiar with its characteristics in a way that also demonstrates safe systems of work.