

MODULE SPECIFICATION

Module Code:	CMT403							
Module Title:	Live Sound							
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Level:	4	Credit Value:		20				
Cost Centre(s):	GACT	<u>JACS3</u> c <u>HECoS</u> c		J930 100222				
Faculty	Arts, Science and Technology		Module Leader:	Colin Heron				
Scheduled learning and teaching hours 48 hrs								
Guided independent study			152 hrs					
Placement			0 hrs					
Module duration (total hours)			200 hrs					
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Programme(s) in which to be offered (not including exit awards) Core						Option		
BSc (Hons) Sound Technology					 ✓ 			
BSc (Hons) Music Technology					 ✓ 			
BSc (Hons) Professional Sound and Video					✓			
BSc (Hons) Live Sound					\checkmark			
Pre-requisites								

Office use only

Initial approval:September 16Version no:1With effect from:01/09/201901/09/2019Date and details of revision:Reapproved by AB 13/03/18 as part of reval forVersion no:2BSc (Hons)Live SoundVersion no:2

Module Aims

The content of this module is an introduction to live sound production as applied to the touring and installation sound system professional. The theory concentrates on the design and operation of medium to large-scale public address systems. It develops the student's appreciation of the key elements that are required in a high quality sound system and furnishes them with the required skills to play an active part in a live sound company or production team.

Intended Learning Outcomes

Key skills for employability

- KS1 Written, oral and media communication skills
- KS2 Leadership, team working and networking skills
- KS3 Opportunity, creativity and problem solving skills
- KS4 Information technology skills and digital literacy
- KS5 Information management skills
- KS6 Research skills
- KS7 Intercultural and sustainability skills
- KS8 Career management skills
- KS9 Learning to learn (managing personal and professional development, selfmanagement)
- KS10 Numeracy

At	the end of this module, students will be able to	Key	Key Skills			
1	Appraise the environmental factors that limit the effectiveness	KS1	KS3			
	of available technology.	KS6				
2 Design and specify technological solutions for a sound reinforcement applications.	Design and specify technological solutions for a variety of sound reinforcement applications	KS3	KS6			
		KS7	KS9			
		KS10				
3	Work as a team member on a live sound event and understand the roles of the associated team members.	KS2	KS3			
		KS8				
	Apply the procedures and techniques for producing and	KS4	KS5			
4	engineering live events to a professional technical and creative standard.	KS9				
Transferable skills and other attributes						
The ability to interpret technical specifications						
Problem solving in a work based environment						
Ability to work as part of a team						
Communication skills						

Derogations

None

Assessment:

Indicative Assessment Tasks:

- 1. The student will conceive and design a sound system for a given application. The design will cover all aspects of the application from the supply of the components to any health and safety considerations.
- 2. The student will work as part of a small team that will build and operate a medium scale public address system. This will be assessed through a practical timed test of installing a live sound rig that needs to be fit for the given technical specification. The timing will be comparable to that expected in an industrial situation.

Assessment number	()utcomes to I I vne of assessment		Weighting (%)	Duration or Word count (or equivalent if appropriate)
1	1,2,4	Project	70	2000
2	3	Simulation	30	30 minutes

Learning and Teaching Strategies:

The module will be presented as a series of lectures linked to practical sessions with the associated equipment.

Seminars will be conducted to explore the applied use of the technology.

Group collaboration will be encouraged to emphasise the importance of teamwork within the live sound industry.

Syllabus outline:

Live systems in context Health and safety System topography Live mixing consoles (digital and analogue) Graphic equalisation Crossovers and loudspeaker system control Low frequency transducers High frequency transducers Line Array Computer modelling and control System calibration and optimisation System measurement utilising FFT

Indicative Bibliography:

Essential reading

Davis, D. & Patronis, E, (2006). Sound System Engineering. Focal Press.

Eargle, J. & Foreman, C. (2008). Jbl Audio Engineering for Sound Reinforcement . Kendrick Books.

Gibson, B. (2011). The ultimate live sound operators handbook . Hal Leonard Books.

Other indicative reading

Davis, G. Jones R, (1990). Sound Reinforcement Handbook. Hal Leonard Corp. Stark, S (2002). Live Sound Reinforcement; Hal Leonard Corp. Audio Engineering Society – Journal and e-Library <u>http://www.aes.org</u>