

# MODULE SPECIFICATION PROFORMA

Module T	itle:	Live Sound			Leve	el: 4	4	Credit Value:	20	)
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Module code:		CMT403	Is this a new module?	No Code of modul being replaced			N/A			
Cost Centre: GACT		JACS3 code:		J930						
Trimester(s) in which to be offered:			2	With	n effect n:	t	Septe	ember 16	er 16	
School: Creative Arts				lodule eader:	I Colin Heron					
Scheduled learning and teaching hours 48hrs										
Guided independent study				152hrs						
Placement				0hrs						
Module duration (total hours)				200hrs						
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Programme(s) in which to be offered Core Op					Option					
BSc (Hons) Sound Technology				$\square$						
BSc (Hons) Music Technology										
BSc (Hons) Professional Sound and Video										
Pre-requi	sites									
None										
	al Sept	nodification Enter dat					ck here to er	nter text.		
Have any derogations received SQC approval?				Yes □ No □						

#### **Module Aims**

Guidance: Include any skills and attributes which may be developed, but are not necessarily assessed (200 words maximum)

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**

Guidance: These ILOs are assessed and can be discipline cognitive abilities and skills (including the knowledge domain in which they are exercised); psychomotor (manual) skills, values and attitudes or generic key skills. Typically, a 20 credit module would have not more than about 6 ILOs. The text of each ILO should consist of an active verb (the knowledge processing eg analyse), the content or subject of the knowledge and the context and/or level of performance. Learning outcomes should reflect the level descriptors in the QAA Quality Code Part A; Setting and maintaining threshold academic standards. Guidance on writing ILOs is on the TLC website (<a href="https://glynfo.glyndwr.ac.uk/course/view.php?id=127">https://glynfo.glyndwr.ac.uk/course/view.php?id=127</a> Sharing Effective Practice)

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, self-
	management)
KS10	Numeracy

At	the end of this module, students will be able to	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 variety of sound reinforcement applications.	KS3	KS6	
		KS7	KS9	
		KS10		
3		KS2	KS3	

	Work as a team member on a live sound event and understand the roles of the associated team members.	KS8	
	understand the roles of the associated team members.		
4	Apply the procedures and techniques for producing and engineering live events to a professional technical and creative standard.	KS4	KS5
		KS9	

Transferable/key 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**

Guidance: Enter any derogations that apply to this module and that have been approved by SQC (200 words maximum).

None

#### Assessment:

Guidance: Please give details of indicative assessment tasks below.

- 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.

Guidance: Please indicate the type(s) of assessment (eg examination, oral, coursework, project) and the weighting of each (%). Normally, each intended learning outcome should be assessed only once.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)	Duration (if exam)	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

## Bibliography:

### **Essential reading**

Guidance: These titles form an essential part of the course. Students are expected to draw on these titles as a core part of their learning experience and in order to complete assignments satisfactorily. No more than three or four texts should be set for each module and electronic resources should be included if appropriate.

Programme leaders should clearly indicate where students would be expected to purchase items for themselves. The library will, **wherever possible**, keep one copy of each in stock on restricted loan for students to consult.

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

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

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

#### Other indicative reading

Guidance: These are titles which supplement or enhance core reading. Students should be encouraged to make use of the library catalogue or other databases to identify further reading.

Reading lists should be submitted by June to guarantee availability for September. Please contact your Learning Resource Advisor for further information.

Davis, G. Jones R, (1990). Sound Reinforcement Handbook. Hal Leonard.

Stark, S (2002). Live Sound Reinforcement; Hal Leonard

Audio Engineering Society – Journal and e-Library http://www.aes.org