Liverpool John Moores University

Title:	LIVE SOUND
Status:	Definitive
Code:	**4504MPSH** (116186)
Version Start Date:	01-08-2011
Owning School/Faculty:	Liverpool School of Art & Design
Teaching School/Faculty:	St Helens College

Team	Leader
Stuart Borthwick	Y

Academic Level:	FHEQ4	**Credit Value:**	24.00	**Total Delivered Hours:**	77.00
Total Learning Hours:	240	**Private Study:**	163		

Delivery Options
Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	20.000
Practical	15.000
Tutorial	15.000
Workshop	26.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	A 3000 word written assignment	40.0	
Exam	AS2	Exam	20.0	1.00
Report	AS3	A practical task analysis situation	40.0	

Aims

To develop an understanding of appropriate processes/procedures employed within a 'Live Sound' environment. Recognise how the tasks to support performance are formalised into technical roles. Introduce the learner to loudspeaker enclosure placements, installation and design. Develop an awareness of acoustic control within

a live performance situation.

Learning Outcomes

After completing the module the student should be able to:

1	Gain knowledge and understanding of the appropriate technical requirements for a variety of 'live sound' situations. A7
2	Use or describe equalisation effectively with regards to corrective and creative theories. A8
3	Control and engineer audio signals from a FOH and Monitor perspective C9
4	Understand signal flow/wiring configurations of typical Sound Reinforcement systems. A9

Learning Outcomes of Assessments

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

3000 words	1	2	4
EXAM	1		
practical task analysis	2	3	4

Outline Syllabus

Health & Safety issues
Terminology
Rigging & De-rigging
Signal flow & wiring configuration
Speaker Design
Speaker placement
Acoustic control within a live environment
Voicing Up/Ringing out
Room Modes (Standing Waves/Nodes/Antinodes)
Mixing consoles FOH/Monitor
Crossovers
Amplifiers
Equalizers
Audio Processor (Configuration & application)
FX Processors (Configuration & application)
FOH & Monitor mixing
Microphone types, choice and placement
Plugs/Jacks/Connectors
Technical Roles

Learning Activities

The Module will consist of a combination of lectures, academic tutorials, individual/group workshops, video presentations and demonstrations.

References

Course Material	Book
Author	Buick, P.
Publishing Year	1996
Title	Live Sound PA for Performing Musicians
Subtitle	
Edition	
Publisher	PC Publishing
ISBN	

Course Material	Book
Author	Davis, D. & Davis, C.
Publishing Year	1997
Title	Sound System Engineering
Subtitle	
Edition	2nd ed.
Publisher	Focal Press
ISBN	

Course Material	Book
Author	Davis, G. & Jones, R.
Publishing Year	1988
Title	The Sound Reinforcement Handbook
Subtitle	
Edition	
Publisher	Yamaha Products
ISBN	

Course Material	Book
Author	Fry, D.
Publishing Year	1992
Title	Live Sound Mixing
Subtitle	
Edition	2nd ed.
Publisher	Roztralia Productions
ISBN	

Course Material	Book
Author	Gibson, B.
Publishing Year	2007
Title	Live Sound Operators Handbook

Subtitle	
Edition	
Publisher	Hal Leonard
ISBN	

Course Material	Book
Author	Huber, D. M. & Runstein, R.E.
Publishing Year	1995
Title	Modern Recording Techniques
Subtitle	
Edition	5th ed.
Publisher	Focal Press
ISBN	

Course Material	Book
Author	Stark, S.H.
Publishing Year	2002
Title	Live Sound Reinforcement
Subtitle	
Edition	
Publisher	Mix Books
ISBN	

Course Material	Book
Author	White, P.
Publishing Year	2000
Title	Basic Live Sound
Subtitle	
Edition	
Publisher	Sanctuary Publishing LTD
ISBN	

Course Material	Book
Author	White, P.
Publishing Year	1998
Title	Live Sound For The Performing Musician
Subtitle	
Edition	
Publisher	Sound on Sound
ISBN	

Notes

The Module will explore the basics of live sound, both in terms of theory and professional practice. The components and configuration of a professional sound reinforcement system will be explored, both in the classroom and in practical

sessions in the Citadel Arts Centre, which has a suitable P.A. system for the learner to gain practical experience in a professional setting. Key tasks in professional sound engineering practice, such as voicing up and ringing out, and setting up a monitor mix, will be explored in the Module, again both in the classroom and in practical sessions. The practical task analysis assessment will take place in the Citadel Arts Centre, St Helens.