

Module Details	
Module Title:	Sound Engineering
Module Code:	FAM7018-B
Academic Year:	2019-20
Credit Rating:	20
School:	Department of Media Design and Technology
Subject Area:	Film and Media
FHEQ Level:	FHEQ Level 7 (Masters)
Pre-requisites:	
Co-requisites:	

Contact Hours	
Type	Hours
Lectures	8
Tutorials	10
Laboratory	4
Directed Study	178

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 1 (Sep - Jan)

Module Aims
This module will provide students with a broad understanding of the function of sound in outside broadcasting, the variety of different options for capturing and transmitting sound for different purposes and under different conditions. It will use industry standards and formats and learners will become adept in the use of a wide variety of different sound equipment.

Outline Syllabus
Venue acoustics, broadcast audio formats, noise regulations, loudness standards, microphone and cable types, audio desk controls and signal processing The characteristics of different types of venues.

Setting up effects, music, discussion microphones and other equipment
Setup and test RF systems

Key Texts:

Ballou G (2015) Handbook for Sound Engineers, Routledge

Pohlmann Ken C (2010) Principles of Digital Audio, McGraw Hill

Learning Outcomes

1	Apply RF theory to determine the appropriateness of equipment and guard against causes of signal loss Evaluate the benefits of a variety of audio equipment and systems to select the most appropriate equipment for the capture, broadcast or recording of sounds to meet the needs of clients and the venue. Synthesise a systematic knowledge of industry standards in sound recording and management
2	Diagnose problems in the signal chain and identify solutions to rectify sound problems Prepare and operate a wide range of microphones and associated equipment and configure radio systems to accommodate the needs of clients across a range of venues Monitor audio signals across different ranges to detect sound-quality deviations or malfunctions
3	Communicate ideas effectively Solve problems methodically

Learning, Teaching and Assessment Strategy

The learning and teaching strategy is based on an integrated and blended learning experience that will include residentials, online learning through the VLE, supported work-based learning and directed study. Practical skills such as the optimal or creative use of sound equipment, their application and limitations will be developed through a structured work-based learning supported by your work-place mentors. Underpinning knowledge and understanding will be developed through lectures and seminars, directed reading and online exercises. A logbook demonstrating the performance of practical elements will be completed before attendance at the assessment residential. The assessment will be through an assessed scenario activity, which will include the selection and use of sound equipment to achieve specific ends, diagnosing and rectifying faults and explaining the reasons for actions. This will be supplemented by online exercises and a written reflection on what was learned on the module.

Mode of Assessment

Type	Method	Description	Length	Weighting
Summative	Examination - practical/laboratory	Practical simulation - assessed practical scenario activity		70%
Summative	Coursework	Online exercises and written reflection		30%

Reading List

To access the reading list for this module, please visit <https://bradford.rl.talis.com/index.html>.

Please note:

This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.