

Module Specification

Summary Information

Module Code	5607STE
Formal Module Title	Broadcast Audio
Career	Undergraduate
Credits	15
Academic level	FHEQ Level 5
Module Pass Mark	40

Learning Methods

Learning Method Type	Hours
Lecture	10
Practical	8
Workshop	20

Module Offering(s)

Start Month	Duration
February	12 Weeks

Aims and Outcomes

Aims	This module aims to give students a deep understanding of the technical requirements, systems and operational considerations when working with audio for broadcast. Starting in the field of radio broadcasting, the module will also explore audio in the context of television production in both studio and outside broadcast contexts.
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Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Design, rig and operate an audio system for a live television event to a defined brief.
MLO2	Recall and explain the key technical processes associated with audio for broadcast.
MLO3	Evaluate the choice and performance of specific technical solutions to key broadcast audio requirements.

Module Content

Outline Syllabus

Transmission for Broadcast

AM/FM transmission; DAB, DTTV and MPEG2; modulation and intermodulation; sidebands and frequency planning; streaming audio.

Metering Considerations

VU, PPM, QPPM, LUFS and EBUR128.

Signal Processing for transmission

Phase Rotators, Limiting, Multi-band compression; use of DialNorm.

Technical Requirements for Broadcast Studios

Mixer topology and function; TBU interfacing; mix minus generation and applications, communications (TB, RTB, Pres / Cont feeds); radio studio operation; GPIO set-up and use.

Audio Formats for Broadcast

Mono, stereo, surround; analogue and digital signal distribution; Dolby E, SDI Embedding and de-embedding.

Audio for Television

Visual considerations; microphone choice and placement.

Outside Broadcast

Systems topology and structure; audio splitting; audio networking implementations – Dante, Hydra2.

Roles and Functions

Broadcast Assistants, Studio Manager, Sound Supervisor.

Module Overview

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Practice	Live Show	70	0	ML01, ML03
Exam	Exam	30	1	ML02

