

## Liverpool John Moores University

Title: Broadcast Studio Operations  
Status: Definitive  
Code: **5204AMP** (121889)  
Version Start Date: 01-08-2021

Owning School/Faculty: Engineering  
Teaching School/Faculty: Engineering

| Team            | Leader |
|-----------------|--------|
| Tony McKenna    | Y      |
| Colin Robinson  |        |
| Anthony Lanigan |        |

**Academic Level:** FHEQ5  
**Credit Value:** 20  
**Total Delivered Hours:** 44  
**Total Learning Hours:** 200  
**Private Study:** 156

### Delivery Options

Course typically offered: Semester 2

| Component | Contact Hours |
|-----------|---------------|
| Lecture   | 10            |
| Practical | 34            |

**Grading Basis:** 40 %

### Assessment Details

| Category | Short Description | Description                    | Weighting (%) | Exam Duration |
|----------|-------------------|--------------------------------|---------------|---------------|
| Practice | AS1               | Production - Studio Radio Prog | 50            |               |
| Practice | AS2               | Production - Studio TV Prog    | 50            |               |

### Aims

*To introduce students to professional technical practices and equipment as used in broadcast media and creative industries, including: managing and organising tasks, people and resources; working to specifications; and applying safe systems of work*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Operate industry-standard audio equipment in accordance with defined technical standards and practices as operated in the industry
- 2 Undertake production of a studio recording suitable for broadcast radio
- 3 Utilise industry-standard video equipment in accordance with defined technical standards and practices as operated in the industry
- 4 Create an 'as-live' production of a recording suitable for broadcast TV

## Learning Outcomes of Assessments

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

|                                   |   |   |
|-----------------------------------|---|---|
| Production - Studio Radio<br>Prog | 1 | 2 |
| Production - Studio TV<br>Prog    | 3 | 4 |

## Outline Syllabus

*Review properties of the eye and ear for broadcasting*  
*Review safe systems of work & relevant legislation for broadcasters*

*Audio Mixing Desks and broadcast level monitoring*  
*Studio audio signal routing*  
*Audio playout for inserts*  
*Digital audio recording for production*

*Properties of camera optics*  
*Choices of shutter speed and frame rate on flicker and movement*  
*Studio camera and floor management operations*  
*Vision engineering - camera channels, lighting control*  
*Lighting and luminaires for studio production*

*Production – grammar and techniques*  
*Vision mixing and taking direction*  
*Playout – cueing, timing and inserts*  
*Video & audio synchronisation and capture*  
*Use of talkback systems*

## Learning Activities

Attend all lectures and practical sessions.  
Engage with on-line learning materials.  
Research and produce the output for the practical assignment

## **Notes**

This module will introduce students to the techniques and equipment used in recording content for radio and TV productions in a studio environment. Students will be required to work both individually and in small groups using equipment to become familiar with its characteristics in a way that also demonstrates safe systems of work.