Prifysgol Wrecsam
Wrexham University

Module specification

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Module Code	CMT525
Module Title	Recording Technology: Advanced Studio Practice
Level	5
Credit value	20
Faculty	FACE
HECoS Code	100443 Media production
Cost Code	GACT
Pre-requisite module	N/A

Programmes in which module to be offered

Programme title	Core/Optional/Standalone
BA (Hons) Music and Sound Production	Core

Breakdown of module hours

Learning and teaching hours	30 hrs
Placement tutor support hours	0 hrs
Supervised learning hours e.g. practical classes, workshops	0 hrs
Project supervision hours	0 hrs
Active learning and teaching hours total	30 hrs
Placement hours	0 hrs
Guided independent study hours	0 hrs
Module duration (Total hours)	170 hrs

Module aims

The content of this module is the explores recording theory and practice, from analogue signal generation into the realms of advanced digital audio processing and reproduction. The student will learn to apply the skills acquired on analogue equipment to virtual studio technology and will appraise the differences and challenges that affect this approach. This will be achieved through the introduction of standard forms of audio test methodologies and applied research.

Module Learning Outcomes

At the end of this module, students will be able to:

1	Implement analogue and digital recording techniques in the context of the modern recording studio.
2	Demonstrate the use and interconnection of studio equipment through digital formats and protocols e.g. MIDI, Dante, Eucon, ipMidi
3	Apply recording and mixing techniques in a hybrid digital and analogue studio setting
4	Utilise audio test methodologies to inform and develop practice.
5	Plan and execute large scale recording projects.

Assessment

1. The student will produce a journal in the form of a Blog that is posted on a weekly basis. The blog will demonstrate the research undertaken in support of the module topics and apply this to practical recording tasks to create artefacts supporting the dialogue of the posts.
2. The student will undertake a project planning exercise regarding the recording tasks and demonstrate the plan at a formal presentation.
3. The student will produce a portfolio of coursework.

Assessment number	Learning Outcomes to be met	Type of assessment	Duration/Word Count	Weighting (%)	Alternative assessment, if applicable
1	LO 1- 2	Portfolio	12 Blogs (circa 3000 words)	40%	N/A
2	LO 4 - 5	Presentation	10 minutes	20%	N/A
3	LO 3 and LO 5	Coursework	5 minutes	40%	N/A

Derogations

N/A

Learning and Teaching Strategies

The Active Learning framework (ALF) embraces accessible, engaging and flexible approaches to learning, teaching and assessment in order that students are afforded the very best opportunities to engage actively with their learning.

- Flexible, innovative, relevant and accessible assessment and feedback practices that optimise student engagement and achievement within a healthy learning environment;

- An approach to research informed-teaching that champions active and engaged inquiry and curiosity through useful, active, applied research and scholarship.

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.

Welsh Elements

In collaboration with the Welsh Language Team at Wrexham University, it is planned that key terms in the degree programme and certain topic areas will be available in Welsh – whether through workshop sessions, or audio and video material, with potential expansion of such capacity.

Indicative Syllabus Outline

- Session Planning
- Production Styles
- Digital Interconnections and protocols
- MIDI and automation
- Synchronisation
- Plugins and analogue integration
- Perception of audio quality
- Audio test methodologies
- Stereo Microphone techniques

Indicative Bibliography

Essential Reads:

Huber, D. (2017) Modern Recording Techniques. Focal Press.

Other indicative reading

Bech, S. Zacharov, N. (2006). Perceptual Audio Evaluation : Theory, method and application. Wiley-Blackwell.

Katz. B. (2020). Mastering audio : The art and the science. Focal Press

Owsinski, B (2022). The Mixing Engineer's Handbook (5th Edition). Bobby Owsinski Media Group

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

Sound on Sound – www.soundonsound.com

Administrative Information

For office use only	
Initial approval date	August 2016
With effect from date	September 2026
Date and details of revision	Revalidated 06/08/2025, updated template
Version number	2