

Short Title:	Digital Audio APPROVED
Full Title:	Digital Audio
Module Code:	DMED H2026
ECTS credits:	5
NFQ Level:	6
Module Delivered in	2 programme(s)
Module Contributor:	Ian Cudmore
Module Description:	Module Aims: • To give students a theoretical grounding in the fundamentals of digital audio • To give students practical experience and skills in creating and editing non-linear digital audio projects
Learning Outcomes:	
<i>On successful completion of this module the learner will be able to</i>	
<ol style="list-style-type: none"> 1. Discuss the fundamental theories of sound and audio in a digital context 2. Capture audio in a digital format 3. Explain the events that comprise the post-production workflow 4. Create and organize sound and sound effects into a project 5. Apply the basic principles of digital audio editing to create projects 6. Identify and implement the appropriate compression technologies required for output to a particular digital medium 	

Module Content & Assessment

Indicative Content

Audio Theory

• Fundamentals of sound • Analogue and digital audio • Microphones and Recording Techniques • Digital processing of audio - sound manipulation and fx

Technology Overview

• Industry tools for audio production • Hardware and software requirements for capturing, editing and end users • Common AV equipment and cabling standards

Digital Media project and Planning

• Storyboarding • Location selection and environment analysis • Session Management

Audio Capture and Editing

• Overview of audio capture hardware • Capture methods for audio • Audio editing techniques • Creating sound effects

Sound Editing

• Normalizing • Noise Reduction • Audio resoration • Mixing • Exporting

Indicative Assessment Breakdown

Course Work Assessment %

%

100.00%

Course Work Assessment %

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Lab work	Short lab-based exercises including Vox-Pop Interviews and Creating music with found-sound recordings.	1,2,3,4,5,6	20.00	n/a
Project	Podcast / Audio Documentary	1,2,3,4,5,6	60.00	n/a
Case study	Case study or analysis of a given theory-based topic	1,3,6	20.00	n/a

No Final Exam Assessment %

Indicative Reassessment Requirement

Coursework Only

This module is reassessed solely on the basis of re-submitted coursework. There is no repeat written examination.

ITB reserves the right to alter the nature and timings of assessment

Indicative Module Workload & Resources

Indicative Workload: Full Time

Frequency	Indicative Average Weekly Learner Workload
Every Week	30.00
Every Week	30.00
Every Week	60.00

Resources

Recommended Book Resources

Jerry C. Whitaker, editor 2002, *Master handbook of audio production*, McGraw-Hill New York [ISBN: 0071408762]

This module does not have any article/paper resources

This module does not have any other resources

Module Delivered in

Programme Code	Programme	Semester	Delivery
BN_DDME8_8	Bachelor of Arts (Honours) in Creative Digital Media [240 ECTS credits]	4	Mandatory
BN_DDME8_7	Bachelor of Arts in Creative Digital Media [180 ECTS credits]	4	Mandatory