

---

**Module Specifications:** *School of Music*

<b>Module Title:</b>	Recording and Digital Production Techniques
<b>Module Code:</b>	BAPM10C
<b>Level:</b>	4
<b>Credits:</b>	30
<b>Pre-requisites:</b>	

**Module Description:**

This module is a practical and theoretical introduction to studio-based multi track recording techniques and digital audio sampling. The module covers basic microphone, multi-tracking and mixing techniques along with sequencing and sampling production processes within a contemporary music idiom. The emphasis of the module is practical and is designed to provide the student with a technical preparation for further music technology modules.

The principles of analogue and digital audio, sample manipulation and sequencing will be introduced. The module culminates in the creation of one multi-track recording combining digital audio with studio recording practices.

---

**Indicative Content:**

- Introduction to microphone types and placement, signal path, level matching, mixing consoles and multitrack recorder.
  - Balance, levels, effects and signal processing.
  - Basic mixing and mastering within the digital domain.
  - Integration of MIDI and audio within sequencing software.
  - Audio editing and theory, bit rates, sample rates and digital audio editing.
- 

**Learning and Teaching Methods:**

The module will be delivered through a mixture of practical workshops, lectures and tutorials in the recording studio and post production suite.

---

**Specific Learning Resources:****Bibliography**Highly Recommended

Thompson, D. (2005) *Understanding Audio – Getting the Most Out of Your Project*. Boston: Berklee Press

Nahmani, D. (2009) *Logic Pro 9: Creating and producing Professional Music*. Berkeley: Peachit Press

Watson, S. (2011) *Using technology to Unlock Musical Creativity*. USA: OUP

White, P. (2006) *Recording and Production Techniques*. London: Sanctuary

## Module Specifications: School of Music

Hugill, A. (2012) *The Digital Musician*, 2nd Ed. UK: Routledge

### Recommended

Huber, D. (2013) *Modern Recording Techniques*, 8th Ed. UK: Focal Press

Gallagher, M. (2008) *The Music Tech Dictionary: A Glossary of Audio-Related Terms and Technology*. UK: Course technology PTR 1

Rumsey, F. and McCormick, T (2009) *Sound and Recording: An introduction*, 6th Ed. Woburn: Focal Press

Hugill, A. (2012) *The Digital Musician*, 2nd Ed. UK: Routledge

White, P. (2003) *Creative Recording Part 2*. London: Sanctuary

### Background Reading

Bartlett, B. and Bartlett, J. (2012) *Practical Recording Techniques: The Step By Step Approach to Professional Audio Recording*. United Kingdom: Focal Press

Massey, H. (2000) *Behind the Glass*. Milwaukee: Backbeat Books

White, P. (2006) *Basic Mixing Techniques*. London: SMT

Russ, M. and Rumsey, F. (2008) *Sound Synthesis and Sampling*, 3rd Ed. Oxford: Butterworth-Heinemann

## Module Learning Outcomes

### Subject Specific Learning Outcomes

*On successful completion of this module you will be able to:*

<b>LO1</b>	Demonstrate an understanding of theoretical principles of audio recording.
<b>LO2</b>	Demonstrate a working knowledge of recording theory through the effective use of microphones, mixing consoles and digital audio workstations.
<b>LO3</b>	Apply basic mixing techniques in the production of a finished recording through digital audio software.
<b>LO4</b>	Creatively apply digital post production techniques in the production of a finished recording.

Assessment Title or element	Weighting (%)
One multitrack recording on Data CD with session/track log information, week 14 semester 1.	50%
Mixed and mastered two-track complete recording on audio CD, weeks 9-11 semester 2.	50%

*Information correct at point of publication.*