

6.11 Module 11: Applications Technology 2

Module Title	Applications Technology 2
Module NFQ Level (only if an NFQ level can be demonstrated)	7
Module number/Reference	BAAMT202
Parent Programme	BA Hons in Audio and Music Technology
Stage of Parent Programme	2
Semester	1 and 2
Module Credit Units (FET/HET/ECTS)	ECTS
Module Credit number of Units	10
List the teaching and learning modes	FT
Entry requirements (statement of knowledge, skill and competence)	Learner has earned Level 5 qualification. No previous applications technology ability is required.
Pre-requisite module titles	None
Co-requisite module titles	None
Is this a capstone module? (Yes or No)	No
Staff qualifications (academic, pedagogical and professional/occupational) and experience required. (staff includes workplace personnel who are responsible for learners such as apprentices, trainees and learners in clinical placements)	Staff are required to have at least a Bachelor of Arts (Honours) qualification in Music Technology or related discipline. Industry experience would be a benefit but is not a requirement. Staff are expected to have the Certificate in Training and Education qualification from Griffith College or its equivalent.
Staff/learner ratio per centre (or instance of the module)	For lecture load, ratio of 1:50 lecturer to learner is required and in lab sessions the maximum allowed is 1:25 The lecturer will also have 1 hour per week set aside in their timetable for 1:1 contact with learners who require it or have particular items they want to discuss.
Maximum number of learners per centre (or instance of the module)	50
Duration of the Module	Two Academic Semesters, 24 weeks teaching
Average (over the duration of the module) of the contact hours per week.	3
Physical resources and support required per centre (or instance of the module)	One lecture hall with capacity at least 50 and one computer lab with capacity of 25.

Analysis of Required Learning Effort									
Effort while in contact with staff									
Classroom and Demonstrations	Mentoring and small group tutoring	Other (Specify)		Directed e-learning (hours)	Independent learning (hours)	Other hours (specify)	Work-based learning hours of learning effort	Total Effort (hours)	
		Hours	Minimum ratio teacher/learner						Hours
48	1:50	24	1:25		178			250	
Allocation of marks (within the module)									
				Continuous Assessment	Supervised Project	Proctored practical	Proctored Written Examination	Total	
Percentage contribution							100%	100%	

6.11.1 Module Aims and Objectives

The objective of this module is to further develop the learner's proficiency using Digital Audio Workstations. Building upon the skills learnt in The Applications Technology, this module encourages the learner to develop workflows associated with music production and post-production environments. This module incorporates the Pro Tools 201, Pro Tools 210M and Logic 301 courses.

6.11.2 Minimum Intended Module Learning Outcomes

On successful completion of this module the learner will be able to:

- MLO 11.1 Demonstrate effective music production workflows in DAWs.
- MLO 11.2 Examine and use comprehensive audio databases.
- MLO 11.3 Effectively manage system resources as per project requirements.
- MLO 11.4 Work effectively with Software instruments.
- MLO 11.5 Edit advanced audio using multiple display options.

6.11.3 Rationale for inclusion of the module in the programme and its contribution to the overall IPLOs

Professional audio software are comprehensive packages that take time to fully comprehend and become useful with. This module develops the learning in Applications Technology, by introducing concepts and practices for larger and more creative workflows. The learning here contributes particularly to Programme learning Outcomes 3 and 6.

6.11.4 Information Provided to learners about the Module

Learners enrolled on this module will receive a copy of the module descriptor and assessment briefs.

6.11.5 Module Content, Organisation and Structure

The module is organised to deliver theory through lectures (2 hours) and supervised tutorials (1 hour). During tutorials, each learner will have a workstation allowing the lecturer to work individually with learners to demonstrate and explain the material.

The lectures each week will combine lecture delivery and discussion on the material.

Each lecturer has a time allocated for one-to-one meetings with learners as required. These are not mandatory sessions but available either where the lecturer wishes to discuss an element of the module with a learner, or a learner requests a meeting to discuss a particular topic. These sessions focus on academic issues only.

Module Content

Effective music production workflows in DAWs

- Advanced audio editing, movement and nudging of regions.
- The different metering options within a DAW.
- Creative use of automation.

Audio databases

- The architecture of Digibase browsers and other database technologies.

Management of system resources as per project requirements

- Professional I/O setups including Main paths, Sub paths, and audition outputs.

Working with Software instruments

- The architecture of Logic Pro's series of software instruments.

Editing using multiple display options 6.6.2

6.11.6 Module teaching and Learning Strategy

Classes are used to explain the concepts, and exemplify (in workshop style) a series of exercises. Developing a learner's ability in DAWs requires constant reinforcement and so sample recordings are worked through both as tutorials and by the learner outside of direct contact hours.

Activity	Teaching / Learning Strategy	Learning Environment
Lectures (48 hours)	Lectures / participative discussions / case studies and examples of DAW features / demonstrations of DAW features and techniques	College
Tutorial (24 hours)	Training in use of DAWs / practical work linking theory and practice / use of computer labs to practice skills	College / Mac lab
Independent Work (178 hours)	Directed and self-directed learning / home study / practicing skills using college studio spaces	College / Home
Examination (3 hours)	Evaluation of knowledge and related skills	College

6.11.7 Timetabling, Learner Effort and Credit

The module is timetabled as one 3-hour session to the whole class. This will consist of the 2-hour lecture, and a 1-hour tutorial with Digital Audio Workstations. On the workstations, the learners engage directly with software used within Professional Audio environments.

The number of credits assigned to this module is our assessment of the learner effort required. It is our view that 10 ECTS of learner effort is required by learners coming new to the material to achieve the learning outcomes required.

6.11.8 Work-Based Learning and Practice Placement.

There is no work based learning or practical placement in the module.

6.11.9 E-Learning

The College VLE is used to disseminate notes, advice and online resources to support the learners. The learners are also given access to Lynda.com as a resource for reference.

6.11.10 Module Physical Resource Requirements

Requirements are for a fully equipped lecture hall and access for learners to a computer workstation with industry standard software. Access to hardware such as MIDI keyboards and i-Loks is also required.

6.11.11 Reading Lists and other information resources.

Recommended Reading

- Cook, F. (2015) *Pro Tools 201: Pro Tools Production I* Avid.com
Cook, F. (2015) *Pro Tools 210M: Pro Tools production II (Music Production)* Avid.com
Dvorin, D. (2015) *Logic Pro X Advanced Audio Production: Composing and Producing Professional Audio* Peachpit Press

Secondary Reading

- Lee White, B. (2014) *Pro Tools Mixing and Mastering* Lynda.com
Malouf, B. (2016) *Mixing Techniques for Pop Music, Part 1* Lynda.com
Malouf, B. (2016) *Mixing Techniques for Pop Music, Part 2* Lynda.com
Lewin, S. (2014) *Mixing and Mastering with Logic Pro X* Lynda.com
Bustelo, D. (2013) *New Ways to Create Music with logic Pro X* Lynda.com

6.11.12 Specifications of Module Staffing Requirements

For each instance of the module, there will be one lecturer qualified to at least Bachelor of Arts (Honours) level in Music Technology or equivalent and with a relevant third level teaching qualification (e.g. Certificate in Training and Education). Depending on numbers a lab assistant may be required. Where this is the case the Assistant will be required to have a sound understanding of digital audio workstations, either through industry experience or academic qualification. For example, a final year Bachelor of Music Production (Honours) learner may be suitable to assist the lecturer in lab sessions. Any lab assistant will work under the supervision of the lecturer.

6.11.13 Module Summative Assessment Strategy

Name	Description	Weighting	Learning Outcomes
Logic 301	In class assessment on Logic Pro. 50 multiple choice questions.	30%	10.1 – 10.5
Pro Tools 201	In class assessment on Pro Tools production. 50 multiple choice questions.	30%	10.3, 10.4
Pro Tools 210M	In class assessment on Pro Tools Production. 50 multiple choice questions.	40%	10.1 – 10.5

These assessments focus on theory and practical application of the various software packages.

Learners may choose to complete Pro Tools and Logic industry online exams at any time during their programme.

6.11.14 Sample Assessment Material

1-Hour, 50 Multiple choice questions:

ProTools HD systems

Sample Question 1:

1. Which one of the following is NOT a way to deactivate a track?
 - a. Right-Click on the track name and choose **Make Inactive**.
 - b. Select the track and choose Track > Make Inactive from the main menu
 - c. Alt-Click on the track name in the Tracks Show/Hide List
 - d. Command +Control – Click (Mac) or Ctrl+Start-Click on the track type icon in the Mix window.

Answer: _____

2. Which Grabber Tool mode allows you to select non-contiguous clips on one or more tracks?
 - a. Time Grabber.
 - b. Separation grabber
 - c. Object Grabber
 - d. All of the above.

Answer: _____