

Full Title:	The Digital Audio Workstation
Module Code:	MUSC U8148
Credits:	7.5
Valid From:	Semester 1 - 2009/10 (September 2009)
Module Delivered in	1 programme(s)
Module Description:	This module offers the student a comprehensive study of the DAW (Digital Audio Workstation) in terms of the recording software and its associated hardware. The student will learn to engineer, edit, mix and manage recording sessions that extend to multi-track recordings of medium sized ensembles. Focus is also on introducing students to MIDI.
Learning Outcomes:	
<i>On successful completion of this module the learner should be able to</i>	
<ol style="list-style-type: none"> 1. Apply the concepts and fundamentals of digital recording and non-linear editing. 2. Execute a multi-track recording session in the DAW environment using recording software, MIDI and associated interfacing hardware. 3. Construct a sound sample from a raw audio file through selection, trimming, fading and consolidation. 4. Implement fundamental computer based recording session 'house keeping' and managerial tasks, introductory multi-track mixing and stereo bounce down operations. 	

Module Content & Assessment

Indicative Content
DAW recording system overview Basic concepts and terminology of recording software and associated hardware.
Hardware Interface variants, features and specifications.
Working with sessions Creation, configuration, title categorization, general management, production stage variants and back-ups.
Audio recording Configuration of tracks for recording, setting levels, creating playlists, loop record, recording modes, latency issues.
Importing Media into session Source material sample rate and bit depth, sample rate conversion, using the 'work space'.
MIDI recording Setting up the grid, general MIDI issues, configuration of MIDI equipment.
Selecting and navigating General manipulation of regions and the time line.
Editing techniques Selecting, trimming, fading, 'smart' tool.
Mixing in the digital domain Using the master track, time delay compensation, plug-ins, internal bus routing, routing to external equipment.
Back up General strategy for the safe storage and retrieval of session data and audio materials.

Assessment Breakdown	%
Course Work	70.00%
End of Module Formal Examination	30.00%

Full Time

Course Work							
Assessment Type	Assessment Description	Outcome addressed	% of total	Marks Out Of	Pass Marks	Assessment Date	Duration
Practical/Skills Evaluation	Execution, organisation and management of an eight track recording assignment incorporating MIDI and a basic stereo mix down for the production of a CD with in the DAW environment.	None	50.00	0	0	Week 14	0
Project	Sound Sample Generation and filing.	None	20.00	0	0	Week 4	0

No Project

No Practical

End of Module Formal Examination							
Assessment Type	Assessment Description	Outcome addressed	% of total	Marks Out Of	Pass Marks	Assessment Date	Duration
Formal Exam	End-of-Semester Final Examination	None	30.00	0	0	End-of-Semester	0

Reassessment Requirement**A repeat examination**

Reassessment of this module will consist of a repeat examination. It is possible that there will also be a requirement to be reassessed in a coursework element.

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

Module Workload & Resources

Workload: Full Time

Workload Type	Workload Description	Hours	Frequency	Average Weekly Learner Workload
Lecture	Theories, concepts and methodologies.	1.00	Every Week	1.00
Practical	Hands on experience using a DAW as a recording, editing and mixing environment.	2.00	Every Week	2.00
Tutorial	Group discussions to work through application specific issues when working in the DAW environment.	1.00	Every Week	1.00
Directed Reading	No Description	3.00	Every Week	3.00
Independent Study	No Description	4.42	Every Week	4.42
Total Weekly Learner Workload				11.42
Total Weekly Contact Hours				4.00

This course has no Part Time workload.

Resources

Recommended Book Resources

Digidesign 2007, *Pro Tools 101 Official Courseware*, 2nd Ed., Course Technology PTR [ISBN: 9781598634242]

M Collins 2009, *Pro Tools 8 Music Production*, Focal Press [ISBN: 9780240520759]

C Leider 2004, *Digital Audio Workstation*, 1st Ed. [ISBN: 9780071422864]

This module does not have any article/paper resources

Other Resources

Website: n/a
<http://www.digidesign.com>

Website: n/a
<http://www.soundonsound.com>

Website: n/a
<http://www.computermusic.co.uk>

Website: n/a
<http://www.projuice.org>

Website: n/a
<http://www.virtualsoundstudio.com>

Module Delivered in

Programme Code	Programme	Semester	Delivery
DK_MMPAR_8	Bachelor of Arts (Hons) in the Production of Music and Audio	1	Mandatory