Module specification

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Module code	CMT507
Module title	Compositional Technology
Level	5
Credit value	20
Faculty	FAST
Module Leader	Mike Wright
HECoS Code	100440
Cost Code	GACT

Programmes in which module to be offered

Programme title	Is the module core or option for this programme
BSc(Hons) Music and Sound Technology.	Core

Pre-requisites

None

Breakdown of module hours

Type of Module hours	Amount
Learning and teaching hours	30 hrs
Placement tutor support	0 hrs
Supervised learning e.g. practical classes, workshops	0 hrs
Project supervision (level 6 projects and dissertation modules only)	0 hrs
Total active learning and teaching hours	30 hrs
Placement / work based learning	0 hrs
Guided independent study	170 hrs
Module duration (total hours)	200 hrs

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Initial approval date	Aug 16
With effect from date	
Date and details of revision	Sept 21 programme title updated to BSc (Hons) Music and Sound Technology
Version number	2

Module aims

To provide the student with the tools to explore audio; music and soundscape installations through the design and implementation of computer driven audio interfaces. Implement the computer as a compositional tool.

Module Learning Outcomes - at the end of this module, students will be able to:

1	Analyse and evaluate differing types of interfaces to enable soundscape design.
2	Define a set of principles and tools to use in the adaptable and changing audio environment.
3	Critically analyse systems to implement audio solutions.

Assessment

Indicative Assessment Tasks:
The student will develop a portfolio of compositional work based on exploration within an audio interface protocol such as MAX/MSP/Jitter GEM; TouchOSC; Arduino

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)
1	1-3	Portfolio	100

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.

Ref Glyndŵr Staff handbook 2021

The module will be delivered to engage with ALF. The ALF model will be used to deliver asynchronous and synchronous lectures and content. The module will be delivered using an appropriate range of teaching and learning strategies.

The module is presented through lecture, seminar discussion of themes, presentations and individual investigation. Recorded guides to the software enable the student to return to basic principles. Lectures will be recorded and made available post-delivery.

Indicative Syllabus Outline

Development of core theory regarding MAX/MSP/Jitter developed by cycling 74
Interfacing of hardware to take computer control of visual and audio media.
Algorithms to control audio delivery.

Concepts of music theory and its mathematical structure.
Soundscapes.

Indicative Bibliography:

Please note the essential reads and other indicative reading are subject to annual review and update.

Essential Reads
Cipriani, A.,Giri, M. (2014) Electronic Music and Sound Design. Contemponet.
Manzo, V., Kuhn, W. (2015) Interactive composition. Oxford University Press
www.cycling74.com

Other indicative reading
Organised Sound Journal. Cambridge University Press
Truax, B World Soundscape Project. www.sfu.ca/~truax/wsp.html

Employability skills – the Glyndŵr Graduate

Each module and programme is designed to cover core Glyndŵr Graduate Attributes with the aim that each Graduate will leave Glyndŵr having achieved key employability skills as part of their study. The following attributes will be covered within this module either through the content or as part of the assessment. The programme is designed to cover all attributes and each module may cover different areas.

Core Attributes
Engaged
Enterprising
Creative

Key Attitudes
Commitment
Curiosity
Resilience
Confidence
Adaptability

Practical Skillsets
Digital Fluency
Organisation
Critical Thinking
Communication