School of Computing, Engineering and Built Environment

B.Sc./B.Sc.(Hons) Audio Technology

**PROGRAMME SPECIFICATION
(ABRIDGED)**

May 2020

GLASGOW CALEDONIAN UNIVERSITY   PS1

Programme Specification Pro-forma

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1. GENERAL INFORMATION

1.	**Programme Title:**	Audio Technology
2.	**Final Award:**	BSc (Hons)
3.	**Exit Awards:**	BSc
		Dip. HE
		Cert. HE
4.	**Awarding Body**:	Glasgow Caledonian University
5.	**Approval Date:**	April 2015
6.	**Faculty/School:**	School of Engineering and Built Environment
7.	**Host Department:**	Engineering
8.	**UCAS Code:**	J932
9.	**PSB Involvement:**	Institution of Engineering and Technology (IET)
		Joint Audio Media Education Services (JAMES)
10.	**Place of Delivery:**	Glasgow
11.	**Subject Benchmark Statement**:	Engineering
12.	**Dates of PS Preparation/Revision**:	Revised September 2014 under title of Audio Technology with Electronics
		Revised April 2015
		Revised September 2015
		Revised September 2016
		Revised June 2017
		Revised June 2018. This programme is a merge of Audio Systems Engineering and Audio Technology.
		Revised May 2019
		Revised May 2020

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2. EDUCATIONAL AIMS OF THE PROGRAMME

General aims
- To equip students with the necessary multidisciplinary skills to function effectively in a technical post within the audio and associated industries
- To provide education and training that is accredited by the Institution of Engineering and Technology (IET) and Joint Audio Media Education Services (JAMES)
- To provide opportunities to develop appropriate transferable skills including communication and teamwork.
- To equip students with appropriate academic and transferable skills to support continued independent learning as required in the rapidly changing audio technology industry

Specific Aims for those coming in at First Year Entry and taking the electronics / signal processing stream
- To develop students' ability to contribute to the specification, design, testing, manufacture and maintenance of electronic engineering and audio systems.
- To develop an understanding of the underpinning principles of audio technology in a variety of contexts
- To develop a critical and analytical understanding of the principles of audio technology with emphasis on electronic concepts

Aims for Third Year Entry that take the Game Sound stream

- To provide an opportunity for those with a Higher National Diploma or equivalent to extend their knowledge and skills in audio technology and electronics
- To develop an understanding of the underpinning principles of audio technology with emphasis on audio and associated applications

3. PROGRAMME STRUCTURES AND REQUIREMENTS, LEVELS, MODULES, CREDITS AND AWARDS

The programme has been designed to allow students to exit at each level with appropriate awards.

Each module on the programme is given a SCOTCAT rating of 20 points, with the exception of the Honours project (MHW213190) which has a rating of 40 points. and Digital and Analogue Electronics which have a rating of 10 points each

The requirements are
- 120 points for the award of Cert. HE
- 240 points for the award of Dip HE
- 360 points for the award of BSc
- 480 points for the award of BSc(Hons)

Students with an HND are awarded 240 SCOTCAT points, and therefore require 120 and 240 additional points to achieve the awards of BSc and BSc (Hons) respectively.

First and second years comprise 7 and 6 modules respectively with a notional student effort of 100 or 200 hours allocated to each module. Third and Fourth years comprise 6 and 5 modules respectively with a notional student effort of 200 or 400 hours allocated to each module. The mix of lectures, laboratory work, seminars and tutorials varies in accordance with the demands of individual modules, see module specifications for further details.

Note that at level 3 students that have taken years 1 and 2 can opt for either the Games Sound Design stream, or Electronics and Signal Processing stream and as a result will take an additional module under the chosen stream in 4th year. Those that are entering at level 3 must take the Games Sound Design stream.

BSc (Hons) Audio Technology Year 1			
Module Code	*Module Title*	*Trimester*	*Credits*
M1H623534	Introduction to Audio Systems	B	20 SHE1
M1H620638	Sound Production 1	A	20 SHE1
M1H623526	Electrical Principles and Circuit Theory	A	20 SHE1
M1H323910	Mathematics 1A	A	10 SHE1
M1H323565	Mathematics 1B	B	10 SHE1
M1H623547	Principles of Programmable Systems A	A	10 SHE2
M1H623548	Principles of Programmable Systems B	B	10 SHE2
M1H623617	Integrated Engineering Studies 1	B	20 SHE1
Exit Award – Certificate of Higher Education (CertHE) in Audio Technology			**120**

BSc (Hons) Audio Technology Year 2			
Module Code	*Module Title*	*Trimester*	*Credits*
M2H623536	Sound Production 2	B	20 SHE2

M2J921904	Sound Reinforcement	A	20 SHE2
M2H623525	Analogue and Digital Electronics	A	20 SHE2
M2H323566	Mathematics 2A	A	10 SHE2
M2H323567	Mathematics 2B	B	10 SHE2
M2H020497	Signals and Electronic Systems	B	20 SHE2
M2H623537	Integrated Audio Studies 2	A/B	20 SHE2
Exit Award – Diploma of Higher Education (DipHE) in **Audio Technology**			**240**

ALTERNATIVELY SHE Year 1/2

Qualification	*Credit*
Higher National Diploma (or equivalent)	240

BSc(Hons) Audio Technology Year 3			
Module Code	*Module Title*	*Trimester*	*Credits*
M3H623535	Musical Acoustics	A	20 SHE3
M3H623531	Audio Processing and Effects	A	20 SHE3
M3H620587	Signals and Electronic Systems Design [STREAM A]	A	20 SHE3
M3H620663	Games Sound Design [STREAM B]	A	20 SHE3
M3H623530	Audio and Interactivity	B	20 SHE3
M3H620650	Audio Analysis and Assessment	B	20 SHE3
M3H623554	Integrated Engineering Studies 3	B	20 SHE3
M3H620658	Volunteering in a Technical Role (Option)	A/B	20 SHE3
M3K213161	Exchange Learning Programme (Option)	B	60 SHE3
Exit Award – BSc Audio Technology			**360**

BSc(Hons) Audio Technology Year 4			
Module Code	*Module Title*	*Trimester*	*Credits*
MHW213190	Honours Project	A/B	40 SHE4
MHH623541	Digital Signal Processing [STREAM A]	A	20 SHE4
MHH623533	Games Sound Design 2 [STREAM B]	A	20 SHE4
MHH623532	Converging Technology for AV	A	20 SHE4
MHH623528	Advanced Audio Processing	B	20 SHE4
MHH625264	Acoustic Modelling and Spatial Audio	B	20 SHE4
Exit Award – BSc (Hons) Audio Technology			**480**

4. ASSESSMENT REGULATIONS

The Glasgow Caledonian University Assessment Regulations apply to this programme:

https://www.gcu.ac.uk/media/gcalwebv2/theuniversity/aqd/University%20Assessment%20Regulations%20UG%2019-20%20FINAL.pdf