GLASGOW CALEDONIAN UNIVERSITY

Programme Specification Pro-forma (PSP)

1. GENERAL INFORMATION

1.	**Programme Title:**	Applied Instrumentation and Control
2.	**Final Award:**	MSc Applied Instrumentation and Control
3.	**Exit Awards:**	PgD Applied Instrumentation and Control PgC (Untitled)
4.	**Awarding Body:**	Glasgow Caledonian University
5.	**Period of Approval:**	2022-2026
6.	**School:**	Computing, Engineering and Built Environment
7.	**Host Department:**	Applied Sciences
8.	**UCAS Code:**	
9.	**PSB Involvement:**	Institute of Measurement and Control
10.	**Place of Delivery:**	Glasgow Caledonian University
11.	**Subject Benchmark Statement:**	QAA Qualification Descriptors for Masters Degrees
12.	**Dates of PSP Preparation/Revision:**	April 2023

2. EDUCATIONAL AIMS OF THE PROGRAMME

The aims of the programme are to enable the student to acquire:

- an understanding of the principles and implementation of instrumentation, and control systems;
- an understanding of the importance of efficient and reliable measurement and control systems to a range of industries;
- the skills and knowledge to conduct contracts and projects efficiently, ethically and safely;
- an ability to design and commission new instrumentation and control systems and troubleshoot existing systems;
- managerial, communication and information technology skills;
- have the ability to cope with future technological change;
- equip the student with a sufficiently wide perspective of the subject area so that a number of different approaches to a problem can be identified; to evaluate each of these solutions and to select which would be most appropriate.

The additional aim of the MSc Project component of the programme is:

- to expand the student's expertise by providing the opportunity to undertake a significant piece of independent work.

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

The proposed programme consists of 8 taught modules and an industrially relevant project. Each module is credited with 15 credits and the final project is credited with 60 credits. In accordance with the University guidelines, the following exit awards are available:

Postgraduate Certificate
60 credits Postgraduate
Diploma 120 credits
Master of Science 180 credits

Hence a student completing the 8 modules and accumulating 120 credits would be eligible for the award of a Postgraduate Diploma in Applied Instrumentation and Control. On successful completion of the 8 modules, and the project, the student would be awarded the MSc in Applied Instrumentation and Control. A student accumulating 60 taught credits would be eligible for the award of Postgraduate Certificate (un-named).

The Programme Structure is as follows:

SCQF Level 11

Module Code	**Module Title**	**Credit**
MMH126808	Data Capture	15
MMH626878	Measurement Systems	15
MMH626812	System Health Management	15
MMH626814	Signal Conditioning and Analysis	15
MMH626825	Control Systems 1	15
MMH626809	Control Systems 2	15
MMH626810	Model Predictive Control	15
MMH323674	Professional Practice	15
Exit Award – PgD in Applied Instrumentation and Control		**120**
MMH621937	project	60
Exit Award – MSc in Applied Instrumentation and Control		**180**

8. ASSESSMENT REGULATIONS

Students should expect to complete their programme of study under the Regulations that were in place at the commencement of their studies on that programme, unless proposed changes to University Regulations are advantageous to students.

The Glasgow Caledonian University Assessment Regulations which apply to this programme, dependent on year of entry can be found at:
GCU Assessment Regulations

or

The Glasgow Caledonian University Assessment Regulations which apply to this programme, dependent on the year of entry and with the following approved exceptions can be found at : GCU Assessment Regulations