



School of Engineering and Built Environment

MSc/PgD Big Data Technologies

Programme Specification (Abridged)

3rd July 2019

PROGRAMME SPECIFICATION PRO-FORMA - POSTGRADUATE

1 General Information

1. Programme Title:	Big Data Technologies
2. Final Award:	MSc Big Data Technologies
3. Exit Awards:	PgD Big Data Technologies PgC Big Data Technologies
4. Awarding Body:	Glasgow Caledonian University
5. Approval Date:	22 nd March 2016
6. Faculty/School:	School of Engineering and Built Environment
7. Host Department:	Computer, Communications, Interactive Systems
8. UCAS Code:	
9. PSB Involvement:	N/A
10. Place of Delivery:	Glasgow Campus
11. Subject Benchmark Statement:	Computing
12. Dates of PS Preparation/Revision:	March 2016

2 Educational Aims Of The Programme

The aim for MSc Big Data Technologies is to deliver a programme that allows students to develop expert knowledge and relevant in-depth practical skills in the rapidly expanding fields of Big Data and Analytics technologies. Students study and apply the underpinning technologies of cloud-based and service-oriented computing, Big Data architectures, platforms and analytics, together with developing a working knowledge of the Internet of Things (IoT) – an area that is expanding rapidly and that ideally demonstrates the combination of Big Data and analytics. The programme combines the latest academic advances and provides practice in utilising the tools, techniques and design patterns used by industry professionals, to produce graduates that are intellectually and practically equipped for high quality relevant employment or capable of moving onwards to undertake related research. The programme philosophy and content is consistent-with and underpinned by professional and academic quality bodies, i.e., the ACM, IEEE, BCS and QAA. The programme is consistent with the University's 2020 Vision that aims to create employable graduates wanting to use their skills to make a positive difference to society.

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

All Modules are SHEM (SCQF 11) Level.

The academic year is split into trimesters, each of 15 weeks (12 teaching plus revision and assessment weeks).

Table 1(a) MSc/PgD Big Data Technologies (Full-Time)

Trimester A		
ISIS Code	Module Title	Credits
MMI223994	Big Data Landscape	20 SHEM
MMI223997	Data Analytics	20 SHEM
MMI223999	IT Professional Issues and Project Methods	20 SHEM
Trimester B		
ISIS Code	Module Title	Credits
MMI223996	Cloud Computing and Web Services	20 SHEM
MMI123998	Internet of Things	20 SHEM
MMI223995	Big Data Platforms	20 SHEM

Exit Awards:

Postgraduate Certificate in Computing (see Note 1): 60 SHEM credits

Postgraduate Diploma in Big Data Technologies: 120 SHEM credits

Trimester C		
ISIS Code	Module Title	Credits
MMG411931	Dissertation	60 SHEM

Exit Award:

MSc in Big Data Technologies: 180 SHEM credits

Note 1: PgC in Computing is awarded with 60 SHEM credits – passes in any three modules.

Note 2: SHEM = Scottish Higher Education Masters Level (SCQF Level 11)

SCQF = Scottish Credit and Qualifications Framework

Over/Part-Time Delivery

Table 1(b) MSc/PgD/PgC Big Data Technologies (Part-Time)

Year 1 Trimester A		
ISIS Code	Module Title	Credits
MMI223994	Big Data Landscape	20 SHEM
MMI223997	Data Analytics	20 SHEM
Year 1 Trimester B		
ISIS Code	Module Title	Credits
MMI223995	Big Data Platforms	20 SHEM
Year 2 Trimester A		
ISIS Code	Module Title	Credits
MMI223999	IT Professional Issues and Project Methods	20 SHEM
Year 2 Trimester B		
ISIS Code	Module Title	Credits
MMI123998	Internet of Things	20 SHEM
MMI223996	Cloud Computing and Web Services	20 SHEM

Exit Awards:

Postgraduate Certificate in Computing (see Note 1): 60 SHEM credits
Postgraduate Diploma in Big Data Technologies: 120 SHEM credits

Year 3 Trimesters A and B		
ISIS Code	Module Title	Credits
MMG411931	Dissertation	60 SHEM

Exit Award:

MSc in Big Data Technologies: 180 SHEM credits

Note 1: PgC in Computing is awarded with 60 SHEM credits – passes in any three modules.

Note 2: SHEM = Scottish Higher Education Masters Level (SCQF Level 11)

SCQF = Scottish Credit and Qualifications Framework

8. ASSESSMENT REGULATIONS

The Glasgow Caledonian University Assessment Regulations and associated policies apply to this programme. They can be accessed at the following web page:

<http://www.gcu.ac.uk/gaq/regulationsandpolicies/assessmentregulationsandassociatedpolicies/>