MSC GEOGRAPHICAL INFORMATION SYSTEMS

Overview

The MSc in Geographical Information Systems is a full-time programme which comprises a dissertation worth 30 credits (GG6546) which is carried out over a six-month period during one academic year. The MSc will not be funded as part of the HCI Pillar 1 initiative and students will be required to self-fund this MSc.

Programme Requirements

For information about modules, module choice, options and credit weightings, please go to Programme Requirements (p. 1).

Programme Requirements

Code	Title	Credits
Students take **30** credits:		
GG6546	Dissertation in GIS	30
Total Credits		**30**

Examinations

Full details and regulations governing Examinations for each programme will be contained in the *Marks and Standards Book* and for each module in the *Book of Modules*.

Programme Learning Outcomes

Programme Learning Outcomes for the MSc Geographical Information Systems (NFQ Level 9, Major Award)

On successful completion of this programme, students should be able to:

- Apply the skills and knowledge gained to real world problems through completion of in course industry facing projects.
- Explain the technical and industry facing concepts that underpin the technologies of Geographical Information Systems and Science (GIS) and related areas of Geoinformatics (e.g. global navigation satellite systems, geospatial data analysis, web applications).
- Apply knowledge of these technologies in a variety of sectors (e.g. local and national government, industry, commerce, the public sector, resource management) and at scales from the local to the global.
- Use a variety of Data Science and Geoinformatics methods and tools including computational analysis, fieldwork, numerical modelling and computer programming using several leading software and programming packages with immediate application in geo-spatial business processes.
- Prepare and present seminars, write reports and create cartographic and web-based Geoinformatics products to a professional standard.
- Apply the GIS skills and knowledge gained to real world problems through completion of an independent project based on directed research.
- Prepare a research paper according to the format of a standard scientific journal.