

POSTGRADUATE DIPLOMA IN GEOGRAPHICAL INFORMATION SYSTEMS

Overview

NFQ Level 9, Major Award

The Postgraduate Diploma in Geographical Information Systems is a full-time programme taught over 9 months.

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 60 credits as follows: | | |
| GG6542 | Fundamentals of GIS | 15 |
| GG6543 | Programming for GIS | 15 |
| GG6544 | Cloud-Based GIS | 15 |
| GG6545 | Geographic Data Science | 15 |
| Total Credits | | 60 |

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 Postgraduate Diploma in 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.