

POSTGRADUATE DIPLOMA IN GEOINFORMATICS

Overview

NFQ Level 9, Major Award

Exit Award only

Students on the MSc (Geoinformatics) (<https://ucc-ie-public.courseleaf.com/programmes/mscgeo/>) programme who successfully complete 60 credits in Part I may choose to exit the programme and be awarded the Postgraduate Diploma in Geoinformatics

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 - all listed core modules (55 credits) and 5 credits of elective modules:		
<i>Core Modules</i>		
GG6501	Introduction to Geographical Information Systems	5
GG6502	Introduction to Remote Sensing	5
GG6505	Applications of Geoinformatics	10
GG6531	Computer Programming for GIS Applications	5
GG6533	Spatial Ecology and GIS	5
GG6535	Data Visualisation	5
GG6536	Geospatial Data Analysis	10
GG6537	Internet GIS	10
<i>Elective Modules</i>		
Students take one module to the value of 5 credits from the following:		5
GL6025	Geoinformatics for Environmental Geology	
GL6022	Environment and Planning: Policy & Regulation	
GG6541	Introduction to Coastal and Marine Processes	
LW6617	International Biodiversity and Ecosystems Law and Policy	
LW6618	Climate Change Law and Policy	
PD6205	Planning and Management of Natural Resources	
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 Geoinformatics (NFQ Level 9, Major Award)

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

- Explain the theoretical and practical principles and concepts that underpin the technologies of Geographical Information Systems and Science (GIS), Remote Sensing (RS), 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;
- Appreciate the current uses and users of Geoinformatics within Irish industry, policy and education, and evaluate how the discipline will support future economic and social developments in the country;
- Use a variety of Geoinformatics methods and tools including computational analysis, fieldwork, numerical modelling and computer programming using several leading software and programming packages;
- Prepare and present seminars, write reports and create cartographic and web-based Geoinformatics products to a professional standard.