

MSC IN GEOGRAPHICAL INFORMATION SYSTEMS

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.