

**GEOGRAPHICAL INFORMATION SYSTEMS (ONLINE - JANUARY START) (MSc/PgDip/PgCert)
63F80JB1/63F80JVX/63F80JVZ**

Duration: 24 months part-time distance learning (MSc)

Content:

Stage 1

GG5570 Fundamentals and Advanced Applications of Map Algebra (15 credit points)
GG5566 Introduction to GIS Tools, Techniques, Cartography and Geovisualisation 15 credit points)
GG5068 Origins, Evolutions and Implementation of GIS (15 credit points)
GG5064 UAV Remote Sensing, Monitoring and Mapping (15 credit points)

Stage 2

All the courses for Stage 1, plus:

GG5568 Advanced Spatial Analysis and Programming (15 credit points)
GG5563 Current Applications of GIS (15 credit points) incorporating one or two of the following:

- Renewable Energy Applications of GIS
- Offshore Survey Applications of GIS
- Oil and Gas Applications of GIS
- Business Applications of GIS
- Environmental Applications of GIS
- Planning Applications of GIS
- Archaeological Applications of GIS
- Transport Applications of GIS
- Precision Agriculture Applications of GIS

GG5070 WebGIS and Online Mapping (15 credit points)
CS501B Database Systems and Big Data (15 credits)

Stage 3

All the courses for Stage 1 and 2, plus:

GG5912 Dissertation in Geographical Information Systems (60 credit points) to be taken over 3 months (completed in the second summer of the second year)

Assessment: By a combination of (i) written assignments, practicals and fieldwork, presentations and laboratory reports - as prescribed for each course, (ii) a dissertation.