

**GEOGRAPHICAL INFORMATION SYSTEMS (ONLINE - JANUARY START) (MSc/PgDip/PgCert)
63UF80B1/63UF80VX/63UF80VZ**

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

Content:

Stage 1

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

Stage 2

All the courses for Stage 1, plus:

GG5563 Current Applications of GIS (15 credit points)
GG5568 Advanced Spatial Analysis and Programming (15 credit points)
CS5098 Database Systems and Big Data (15 credits)
GG5070 WebGIS and Online Mapping (15 credit points)

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.