

Mapping of Programme and course objectives of the “Post Graduate Certificate in Geoinformatics” (PGCGI) programme

PGCGI

- Demonstrate conceptual understanding on basics of geoinformatics
- Recognise and appreciate the importance of the geoinformatics and its application in diverse fields
- Acquaint learners with the use of geoinformatics technology in analysing spatial data

MGY-001

Introduction to Geoinformatics

- Discuss the basic concepts of geoinformatics, geospatial data, data sources, tools, and maps including topographical maps;
- Recognise the role of national agencies and initiatives involved with geoinformatics related work;
- Describe scope and applications of geoinformatics in diverse fields

Assessment

1. Assignment
2. Term End Theory Exam

MGY-002

Remote Sensing and Image Interpretation

- Discuss concept of remote sensing and its governing principles, spectral signature, sensors and their characteristics,
- Explain the basics of visual image interpretation;
- Describe characteristics of digital images and concepts of their processing.

Assessment

1. Assignment
2. Term End Theory Exam

MGY-003

Geographic Navigation Satellite System and Geographic Information System

- Discuss principles of GNSS, its applications and steps in GPS survey;
- Describe fundamentals of GIS, database creation, methods of GIS analysis and the types of outputs;
- Explain importance of project design and the steps involved.

Assessment

1. Assignment
2. Term End Theory Exam

MGYL-004

Geoinformatics Practicals

- Download geospatial data from various sources and install s/w;
- Carry out ground truthing and assess accuracy of map generated;
- Perform basic spatial analysis operations and compose a map;
- Adapt to work on different geospatial tools.

Assessment

1. Practical record
2. Term End Practical Exam
3. Viva