Module Specification

Geological Field Skills

Version: 2023-24, v2.0, 26 Jul 2023

Contents

Part 1: Information

Module title: Geological Field Skills

Module code: UBGMN8-15-1

Level: Level 4

For implementation from: 2023-24

UWE credit rating: 15

ECTS credit rating: 7.5

Faculty: Faculty of Environment & Technology

Department: FET Dept of Geography & Envrnmental Mgmt

Partner institutions: None

Field: Geography and Environmental Management

Module type: Module

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Not applicable

Features: Not applicable

Educational aims: See Learning Outcomes

Outline syllabus: Field equipment and health and safety, risk assessment.

Site selection using maps and literature.

Scale of observation and measurement, dip, strike, orientation.

Recording observations, photography, use of mobile apps.

Palaeontology in the field, recording sedimentary features, graphic logs.

Recording features of igneous and metamorphic rocks.

Recording information on structural features.

Use of instruments, recording numerical data.

Sampling strategies.

Creating a basic geological map.

Creating base maps for geological field work using GIS.

Adding field observation to a map using GIS.

Interpreting field observations and reporting.

Part 3: Teaching and learning methods

Teaching and learning methods: Students will receive, on average, 3 hours' contact time per week. This is essentially a field-based module and the residential field trip will be introduced by laboratory-based workshops and practical sessions. One-to-one support will be provided during the practical and field sessions and via email.

Scheduled learning on this module includes workshops, demonstrations, practical classes and field excursions. Independent learning includes hours engaged with

essential reading, completion of practical work, assignment preparation and completion. These sessions constitute an average time.

Contact time (field and laboratory sessions): 50 hours
Assimilation, development of knowledge and independent reading: 55 hours
Coursework preparation: 45 hours
Total study time: 150 hours

Module Learning outcomes: On successful completion of this module students will achieve the following learning outcomes.

MO1 Demonstrate correct and safe use of appropriate field equipment

MO2 Carry out an initial study of geological maps and relevant literature in order to develop a prior understanding of a field site

MO3 Record observations and measurements of rock outcrops taken in the field for later interpretation

MO4 Record information about sedimentary rocks in the field as a graphic log

MO5 Describe, identify and interpret common igneous, metamorphic and sedimentary rock types in outcrop

MO6 Present the outcomes of field study in oral, written and graphic (diagrams and maps) forms

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 100 hours

Face-to-face learning = 50 hours

Total = 150

Reading list: The reading list for this module can be accessed at readinglists.uwe.ac.uk via the following link https://uwe.rl.talis.com/modules/ubgmn8-15-1.html

Part 4: Assessment

Assessment strategy: Summative assessment:

Fieldwork report. Learning outcomes 1, 3-6:
Presentation of a portfolio of work drawn from individual and small group exercises completed during the residential field excursion.
This will investigate students' field observation skills, and skills in recording and interpreting sediments, rocks, structures and landforms in the field.

Portfolio of practical work (equivalent to 2000 words). Learning outcomes 3-7.
This comprises individual exercises carried out before the field excursion.
It will assess students' ability to access key resources, carry out accurate measurements, draw to scale and make interpretations using academic literature.

Portfolio of GIS exercises. Learning outcomes 2, 3, 6.
This comprises individual exercises using GIS.
It will assess students' ability to apply standard GIS methods.

Formative work:
Formative feedback will be available at all stages during practical sessions and the residential field trip.

Assessment tasks:

Portfolio (First Sit)
Description: Portfolio of practical work (equivalent to 2000 words)
Weighting: 25 %
Final assessment: No
Group work: No
Learning outcomes tested: MO3, MO4, MO5, MO6

Portfolio (First Sit)
Description: GIS exercise

Weighting: 25 %
Final assessment: No
Group work: No
Learning outcomes tested: MO2, MO3, MO6

Report (First Sit)
Description: Fieldwork report (1500 words)
Weighting: 50 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO1, MO3, MO4, MO5, MO6

Portfolio (Resit)
Description: Portfolio of practical work (equivalent to 2000 words)
Weighting: 25 %
Final assessment: No
Group work: No
Learning outcomes tested: MO3, MO4, MO5, MO6

Report (Resit)
Description: Fieldwork report (1500 words)
Weighting: 50 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO1, MO3, MO4, MO5, MO6

Portfolio (Resit)
Description: GIS Exercise
Weighting: 25 %
Final assessment: No
Group work: No
Learning outcomes tested: MO2, MO3, MO6

Part 5: Contributes towards

This module contributes towards the following programmes of study: