Module Proforma

Approved, 2023.01

Summary Information

Module Code	5302NATSCI
Formal Module Title	GIS and Employability
Owning School	Biological and Environmental Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Lee Bradley	Yes	N/A

Module Team Member

Contact Name	Applies to all offerings	Offerings
Timothy Lane	Yes	N/A
Laura Edwards	Yes	N/A
Konstadinos Kiriakoulakis	Yes	N/A
Patrick Byrne	Yes	N/A
Jonathan Dick	Yes	N/A
Jason Kirby	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings

Teaching Responsibility

LJMU Schools involved in Delivery
Biological and Environmental Sciences

Learning Methods

Learning Method Type	Hours
Lecture	7
Off Site	6
Practical	24
Tutorial	5
Workshop	7

Module Offering(s)

Offering Code	Location	Start Month	Duration
SEP-CTY	CTY	September	12 Weeks

Aims and Outcomes

Aims	This module aims to inform research, inquiry, and communication through development of geographical skills, to provide students with increased professional and subject specific understanding, and to enhance the personal and intellectual autonomy of students. To introduce students to Geographical Information Systems (GIS), and introduce key methods of data and database management.

Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Acquire, process, and manipulate a variety of geographical information within a GIS.
MLO2	Demonstrate problem solving skills, and ability to communicate scientific findings through verbal and written methods.
MLO3	Identify and reflect upon aspects of personal, professional, and academic development, and their experience of working in a team.

Module Content

Outline Syllabus

This syllabus of this module will include: - An introduction to the theory of GIS, remote sensing, and spatial data analysis. - Sources of geospatial data and principles of visualising. - A summary of recent advances in mapping technology and uses, including the relevance of these technologies for physical and human geography. - The creation, manipulation, management, and graphical display of database information. - Digital mapping of spatial datasets in a variety of forms (e.g. raster, vector). - An introduction to employability and graduate skills including shortlisting and interview practice.

Module Overview

This module aims to inform research, inquiry and communication through development of geographical skills and provide you with increased professional and subject specific understanding. It will also introduce you to Geographical Information Systems (GIS) and key methods of data and database management.

Additional Information

This module provides an introduction to a variety of geographical skills directly relevant for the professional development of students. Students will become proficient at using GIS packages to process, manipulate, and interpret a variety of forms of data. This will also include learning about principles of data management, interpolation, and interpretation. Assessments for the module are focused around a GIS portfolio. GIS practical classes and tutorial tasks will form a number of formative assessments which will allow students to receive formative feedback throughout the term.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Portfolio	GIS Portfolio	100	0	MLO3, MLO1, MLO2