

Liverpool John Moores University

Title: RESEARCH METHODS
Status: Definitive
Code: **7121NATSCI** (125688)
Version Start Date: 01-08-2021

Owning School/Faculty: Biological and Environmental Sciences
Teaching School/Faculty: Biological and Environmental Sciences

Team	Leader
Ian Walkington	Y

Academic Level: FHEQ7 **Credit Value:** 20 **Total Delivered Hours:** 40
Total Learning Hours: 200 **Private Study:** 160

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	18
Practical	16
Workshop	6

Grading Basis: 50 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	Portfolio	Portfolio of research work	100	

Aims

- To train students in the process of planning and executing an independent research project using appropriate methodological design.
- To familiarise students with qualitative, quantitative and mixed-methods of data collection and analysis.
- To develop research reporting skills through written and oral methods.

Learning Outcomes

After completing the module the student should be able to:

- 1 Identify a research question, problem or hypothesis and establish appropriate aims, objectives and methods to support the investigation.
- 2 Collate and critically discuss the existing literature in a chosen field in a written review.
- 3 Source, collect and analyse relevant and original qualitative and/or quantitative data.
- 4 Successfully communicate the purpose, methodology and results of a research project.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Portfolio of research work 1 2 3 4

Outline Syllabus

Approaches to research design and planning. Formulating and testing research questions. Hypothesis setting. Sourcing, reviewing and referencing literature. Introduction to Geographical data - primary/secondary data, spatial/non-spatial, quantitative/qualitative data. Sampling design and error. Numerical methods appropriate for geographical datasets. Communication skills beyond report writing.

Learning Activities

Lectures, problem solving, practical work, workshops and discussions.

Notes

This module will deliver information on the fundamentals of research.