

MODULE CODE:
TITLE: GIS and Habitat Management
DATED:

LEVEL: 7
CREDITS: 20

JACS CODE:

AIM : To critically examine habitat management and apply GIS as a spatial planning tool

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- Evaluate habitat management in practice
- Assess conflict analysis of stakeholder groups
- Evaluate and critically appraise the use of GIS software as an aid to the management of stakeholder interests
- Construct a management plan using appropriate techniques and software

INDICATIVE CONTENT

- Monitoring habitats through ecological surveys – Phase I
- Practicalities of managing resources (both finances and people)
- Underpinning legislation linked to biodiversity and public access (health & safety, risk assessment)
- Spatial planning and conflict analysis of terrestrial and coastal/marine habitats
- Management Plan construction
- Investigating secondary data acquisition e.g. maps, digitising, scanning and appropriate attribute data management of spatial data sets.
- Investigate the use of remotely sensed data acquisition techniques for a given environmental model (e.g. LIDAR, GPS).
- Implementation of environmental models using appropriate GIS software solutions.

LEARNING AND TEACHING STRATEGY

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	60	30%
Independent learning	140	70%
Placement learning	0	0%
TOTAL	200	100%

Module Structure – (Wednesday 4-8pm)

Week No	Date	Theme	Tutor
1	31/01/24	Introduction to module and Management Plans	AF
2	7/02/24	Phase 1 Habitat Surveys and National Vegetation Classification (NVC) Principles of Cartography	AF
3	14/02/24	Natural Flood Salt March – Cwm Ivy	AF
4	21/02/24	Flood risk, climate change and building resilience	AF
5	28/02/24	Habitat Classification	AF
6	6/03/24	LiDAR (theory and application)	AF
7	13/03/24	Near-census GIS (SfM)	MD/AF
8	20/03/24	Habitat Creation	AF
	27/03/24	Easter Break	
	3/04/24	Easter Break	
	10/04/24	Easter Break	
9	17/04/24	Google Earth Engine (the cloud!)	AF
10	24/04/24	Biodiversity on degraded landscapes	AF
11	1/05/24	Course Recap & assignment drop in 'surgery'	AF
12	8/05/24	Assignment Presentation	AF