MODULE SPECIFICATION

Part 1: Information			
Module Title	Introduction to Applied Geographical Information Systems (GIS)		
Module Code	UBGMU4-15-M	Level	Level 7
For implementation from	2020-21		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Faculty of Environment & Technology	Field	Geography and Environmental Management
Department	FET Dept of Geography & Envrnmental Mgmt		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description

Educational Aims: The purpose of this module is to introduce students to fundamental concepts related to GIS and its application, and develop the fundamental practical skills that are developed and extended in the rest of the programme.

Outline Syllabus: The history of GIS

GIS and Society

Case studies in applied GIS

Introduction to spatial data formats

Introduction to ArcGIS

Data sources available to students

Teaching and Learning Methods: Directed learning (lectures, seminars): 12 hours

Directed independent learning: 12 hours

Supported practical sessions: 24 hours

Independent practical application: 48 hours

Collaborative research: 12 hours

Independent research: 30 hours

Assessment: 12 hours

This module is designed to provide a solid introduction to GIS principles, an opportunity to develop a set of essential practical skills as well as an awareness of the data resources available to students. Teaching and learning will combine taught sessions, independent research and practical sessions. Students will identify and investigate applications of GIS that align with their personal interests or professional ambitions – with a view to facilitating the development of a dissertation topic.

Scheduled learning includes lectures, seminars, tutorials, project supervision, demonstration, practical classes and workshops; fieldwork; external visits; work based learning; supervised time in studio/workshop.

Independent learning includes hours engaged with essential reading, case study preparation, assignment preparation and completion. These sessions constitute an average time per level as indicated in the section above. Scheduled sessions may vary slightly depending on the module choices you make.

Part 3: Assessment

FORMATIVE ASSESSMENT
Participative peer-led feedback during scheduled learning is a key formative assessment strategy. Presentation of summative assessment topics will be peer reviewed during scheduled learning. Students will be encouraged to submit plans for their summative assessments for comment.

SUMMATIVE ASSESSMENT
The assessment strategy for this module focuses on preparing students for professional practice, and is based on problem-based learning and authentic assessment approaches. Students work in groups using GIS in response to a student-led project which is presented to a team of assessing tutors.

Additionally, students will submit a reflective submission - focused on their personal development over the assessment task, and a technical critique of the work they presented in Component A

Component A (Learning outcomes 1 to 7)
Group presentation:
The discipline related and technical elements of the presentation are assessed by a team of tutors, during the final timetabled session of the module. Presentations skills are peer assessed. Groups will present for 20 minutes and respond to questions.In-class exam to assess theoretical knowledge, and to support practical projects.

Component B (Learning outcomes 2 to 7)
Reflective Submission & Technical Critique

First sit and resit assessments follow the same format and requirements.

First Sit Components	**Final Assessment**	**Element weighting**	**Description**
Presentation - Component A		50 %	GIS project presentation (1500 word equivalent) Groups will present for 20 mins
Written Assignment - Component B	✓	50 %	Consists of two tasks: 1. An account of professional development over the course of the module. 2. A technical critique of the work undertaken by the group (2000 words)
Resit Components	**Final Assessment**	**Element weighting**	**Description**
Presentation - Component A		50 %	Individual Presentation (1500 word equivalent) 20 mins
Written Assignment - Component B	✓	50 %	Consists of two tasks: 1. An account of professional development over the course of the module. 2. A technical critique of the presented work (2,000 words)

Part 4: Teaching and Learning Methods

Learning Outcomes

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

Module Learning Outcomes	**Reference**
Evaluate and critique the impact GIS technology has had on society	MO1
Articulate the history of the development of GIS, and relate it to a chosen field of interest	MO2
Assess the impact of GIS technology on professional practice in a chosen field of interest	MO3
Identify and evaluate the GIS analytical approach for a GIS project	MO4
Define a process for implementing a GIS project in a chosen field of interest	MO5
Identify and evaluate the utility of data from a variety of sources for a GIS project	MO6
Integrate data and analytical methods in the completion of a GIS project, and critically evaluate its outcome	MO7

Contact Hours

Independent Study Hours:	
Independent study/self-guided study	120
Total Independent Study Hours:	120
Scheduled Learning and Teaching Hours:	
Face-to-face learning	30

	Total Scheduled Learning and Teaching Hours:	30
	Hours to be allocated	150
	Allocated Hours	150
Reading List	*The reading list for this module can be accessed via the following link:* https://uwe.rl.talis.com/modules/ubgmu4-15-m.html	

Part 5: Contributes Towards
This module contributes towards the following programmes of study: