

Site Evaluation Strategies and GIS

Module Code:	ARC7048-B
Academic Year:	2019-20
Credit Rating:	20
School:	School of Archaeological and Forensic Sciences
Subject Area:	Archaeology
FHEQ Level:	FHEQ Level 7 (Masters)

Pre-requisites:

Co-requisites:

Contact Hours

Type	Hours
Lectures	28
Seminar	10
Laboratory	16
Directed Study	146

Availability Periods

Occurrence	Location/Period
BDA	University of Bradford / Semester 2 (Feb - May)

Module Aims

This module introduces the student to aspects of site evaluation related to specific archaeological sites and problems. Key issues of archaeological interpretation at intra-site, inter-site and at regional levels are explored within the framework of this module. To provide the theoretical framework and practical experience for working with Geographical Information Systems in order to analyse maps and other spatial data for investigation of landscapes and management of heritage.

Outline Syllabus

This module examines ways in which a variety of landscapes including extensive rural areas, urban sites, coastal and intertidal sites, can be assessed as to their archaeological potential using either single techniques or 'tool box' approaches. Attention will also be focused on legislative concerns and the preparations of project designs for national agencies and the private sector. The question of ownership of 'cultural property' and reasons for protection will also be considered.

GIS as a tool for manipulating and investigating spatially-arranged data. From initial question to GIS database design. Creating a database containing the geographic or archaeological data required (digitising existing maps, obtaining electronic data from varied sources and formats, ensuring the co-ordinate systems match). Coping with different data formats (vector and raster models). Analysing the data by overlaying, querying and combining. Communicating the final results.

Module Learning Outcomes

On successful completion of this module, students will be able to...

- 1 a critical understanding and appreciation of the nature of the archaeological record and applicability of assessment techniques.
- 2 identify the GIS requirements for a particular project and to implement a strategy to address each part of the project.
- 3 ability to formulate assessment and sampling strategies and interpret their results.
- 4 use a GIS package to solve problems and aid investigations.
- 5 use appropriate data sources and data in different formats.
- 6 employ software to analyse and display results in an effective form depending upon the purpose of the study.
- 7 produce a report, using GIS to a professional standard.
- 8 present information and discuss its significance.
- 9 use appropriate IT packages.
- 10 employ advanced level report writing skills.

Learning, Teaching and Assessment Strategy

Concepts, theories, principles and practice are explored in directed reading, formal lectures and hands-on practical experience in guided workshops on usage of a GIS computer package. Group workshops and individual written coursework will assess ability to apply knowledge and critique processes. Case study projects will be used for formative learning and feedback and for summative assessment. During Directed Study hours students are expected to: undertake reading to consolidate and expand on the content of formal taught sessions; research and prepare for assessments; revise material from formal taught sessions; and undertake specific elements of reading, as directed. Guided and unguided workshops will build and expand on the content of lectures. Feedback by written proforma

and individual feedback sessions.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Coursework	Essay	0-2000 words	50%	No
Formative	Coursework	Critique of published site evaluation	0-1000 words	%	No
Summative	Coursework	Report of results from an unguided GIS project	0-2000 words	50%	Yes

Legacy Code (if applicable)

Reading List

To view Reading List, please go to [rebus:list](#).