

Remote Sensing

Module Code:	ARC7053-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	24
Seminar	10
Laboratory	15
Directed Study	151

Availability Periods

Occurrence	Location/Period
BDA	University of Bradford / Semester 1 (Sep - Jan)

Module Aims

This module provides a basic knowledge of the theory of magnetic and electromagnetic phenomena and how these are exploited for the purpose of prospection.

Outline Syllabus

Origins of magnetic properties. Magnetic properties of materials. Magnetic anomalies and Magnetometers. Introduction to electromagnetism and the EM Spectrum. Low and high frequency detectors. Visible and non visible light spectrum imagery of archaeology

Module Learning Outcomes

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

- 1 Demonstrate advanced skills in the treatment and presentation of quantitative data and perform advanced laboratory tasks.
- 2 Demonstrate a theoretical and practical understanding of both 'passive' methods, using the effects of the geomagnetic field, and 'active' methods, using techniques that exploit the EM spectrum.
- 3 Display an in depth knowledge of appropriate selection and application of survey methods in a variety of archaeological contexts.

Learning, Teaching and Assessment Strategy

Lectures, laboratories and seminars Fundamental principles will be taught in lecture based sessions and through the use of worked examples. Laboratory classes will be used to develop practical skills and apply them in a wide range of challenging environments. Practical and communication skills will be tested by the submission of laboratory reports and seminars which will cover different aspects which are progressively taught through the course. In-depth knowledge of the topics covered will be assessed by an extended report / essay. There will be written feedback with opportunity for discussion. Directed study will be used by students for reading of literature detailed in the module documentation.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Formative	Laboratory Report	Outline of Report		%	No
Summative	Laboratory Report	Report on Magnetic Experiment	0-1500 words	40%	No
Summative	Coursework	Extended Report	0-2500 words	60%	Yes

Legacy Code (if applicable)

Reading List

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