

Module Details	
Module Title:	MRes Project Part 2
Module Code:	LIS7021-E
Academic Year:	2020-21
Credit Rating:	60
School:	Life Sciences (Faculty-wide)
Subject Area:	Life Sciences (Faculty-wide)
FHEQ Level:	FHEQ Level 7 (Masters)
Pre-requisites:	
Co-requisites:	MRes Project Part 1 2019-20

Contact Hours	
Type	Hours
Supervised time in studio/workshop	6
Tutorials	15
Laboratory	375
Directed Study	204

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 3 (June - Oct)

Module Aims
To provide the opportunity for students to: - Develop self-direction and originality in the application of knowledge and problem solving. - Develop a comprehensive understanding of appropriate advanced scientific techniques and how those techniques can be used to create and interpret knowledge. - Further develop their analytical, critical analysis, time management and IT skills. - Further develop their awareness of current issues in a research topic of their choice.

- Work as part of a research team on a real-world project.

Outline Syllabus

Continuation of the research initiated in MRes Project 1 through a 10-week period of laboratory work.

Learning Outcomes

1	Update assessment of potential hazards associated with research activity in their area and document a programme of work in accordance with all relevant safety, ethics, GLP and data management requirements.
10	Demonstrate the knowledge and confidence in their ideas and abilities to defend the conclusion of their research in front of their peers.
2	Systematically gather, critically analyse and evaluate data, present data in an appropriate way and apply statistical analysis where appropriate.
3	Review results and identify ways of improving future work.
4	Interpret results, discuss critically in the context of published work and suggest appropriate future work based on their own and others' results.
5	Demonstrate effective communication skills by presenting a poster at the Faculty's Research Open Day.
6	Complete a review of a scientific manuscript written by a peer.
7	Demonstrate effective communication skills in preparation of a dissertation.
8	Work effectively to agreed objectives, responsibilities and working arrangements, demonstrating initiative and independence.
9	Demonstrate effective time management and project planning.

Learning, Teaching and Assessment Strategy

Laboratory work and team activity based on a model editorial board and peer review of manuscripts.

The module develops and enhances student autonomy in learning.

Students will continue their research project as part of a research team in the University of Bradford. Learning outcomes are developed and achieved throughout the module by completing an individually-designed programme of laboratory work. Students meet frequently with their academic supervisor and other researchers who provide individual training and continual formative feedback throughout the project. In addition, students organise themselves into an editorial board to peer review journal manuscripts prepared as part of MRes Project 1, complete the poster (see MRes Project 1) and present it at the Faculty Research Open Day. Students also submit their CV (see MRes Project 1) and attend a mock job/PhD interview on which they receive formative feedback.

LO5 is summatively assessed by presenting a poster at the Faculty Research Open Day.

LO6 is summatively assessed by conducting a critical appraisal and providing constructive

feedback on a manuscript written by a peer.

LO1-LO4 and LO7 are summatively assessed by writing a dissertation.

LO8 and LO9 are summatively assessed continuously throughout the module by the supervisor.

LO1-LO4 and LO10 is summatively assessed through a 15-minute defence of the dissertation by oral exam.

Mode of Assessment				
Type	Method	Description	Length	Weighting
Summative	Presentation	Defence of dissertation (oral exam)	15 minutes	10%
Formative	Dissertation or Project Report	Draft dissertation	-12000 words	%
Summative	Dissertation or Project Report	Dissertation	-12000 words	60%
Formative	Coursework	Draft of poster	A0 size	%
Formative	Coursework	Slides for oral presentation	10-15 slides	%
Formative	Coursework	Draft peer review report	-400 words	%
Formative	Coursework	Mock job/PhD interview		%
Summative	Coursework	Poster Presentation	A0 size	10%
Summative	Coursework	Peer review of a scientific paper	-400 words	10%
Summative	Coursework	Supervisor's assessment of laboratory competence, independence and initiative		10%

Reading List

To access the reading list for this module, please visit <https://bradford.rl.talis.com/index.html>.

Please note:

This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.