

Research Project

Module Code:	BIS7005-E
Academic Year:	2018-19
Credit Rating:	60
School:	School of Chemistry and Biosciences
Subject Area:	Biomedical Science
FHEQ Level:	FHEQ Level 7 (Masters)
Pre-requisites:	
Co-requisites:	Experimental Design 2018-19, Research and Analytical

Contact Hours

Type	Hours
Tutorials	15
Laboratory	300
Directed Study	285

Availability Periods

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

Module Aims

To develop self-direction and originality in the application of knowledge and problem solving in a practical-based research project. Evaluate critically a current area of research in Biomedical Science. To develop comprehensive understanding of appropriate techniques, their limitations and how those techniques can be used to create and interpret knowledge; to demonstrate analytical, critical evaluation, statistical and IT skills in the presentation of a practical research report and a scientific poster; to demonstrate knowledge, understanding and critical analysis in an oral (viva voce) assessment.

Outline Syllabus

As agreed with the project supervisor.

Module Learning Outcomes

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

- 1 Explain and critically evaluate specialist subject areas
- 10 Employ statistics where relevant
- 11 Undertake project planning & time management, agree objectives, responsibilities & working arrangements
- 12 Demonstrate effective time management
- 13 Work with a supervisor & technical staff to plan, agree objectives, responsibilities & working arrangements. Explore problems & compare & select options to overcome them
- 2 Critically evaluate and communicate scientific data in context of published work
- 3 Demonstrate self-direction & originality in implementing a biomedical research project
- 4 Research and analyse a current problem in Biomedical Sciences
- 5 Demonstrate critical thinking
- 6 Demonstrate an understanding of research and scientific method
- 7 Undertake critical thinking
- 8 Demonstrate effective written & oral communication skills by a research dissertation & viva voce
- 9 Develop an IT strategy to organise & refer to literature, & present data in an appropriate manner in a dissertation

Learning, Teaching and Assessment Strategy

Each student has extensive choice allowing a topic of interest to be researched. Following background reading from the scientific literature, an extended research project is carried out over 9 weeks under supervision of a member of academic staff. Students are responsible for the legislative aspects of the projects (COSHH assessment etc., biological safety, working with genetically modified organisms). The unit develops and enhances student autonomy in learning.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Coursework	Project report	0-10000 words	60%	Yes

Summative	Coursework	Laboratory performance/research proposal for dissertation	10%	No
Summative	Coursework	Viva voce on research project/dissertation	15%	No
Summative	Coursework	Prepare a scientific poster on research project	15%	No

Legacy Code (if applicable)

BM-9129Z

Reading List

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