

Module Details	
Module Title	Research Project Preparation and Plan
Module Code	BIS7022-B
Academic Year	2020/1
Credits	20
School	School of Chemistry and Biosciences
Subject Area	Biomedical Science
FHEQ Level	FHEQ Level 7
Pre-requisites	N/A
Co-requisites	N/A

Contact Hours	
Type	Hours
Online Lecture (Synchronous)	4
Seminars	12
Practical Classes or Workshops	24
Tutorials	6
Directed Study	154

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 2

Module Aims
To provide a comprehensive training that facilitates the preparation required to successfully execute and analyse quantitative research projects. To develop an ability to carry out a series of tasks required in planning, executing and disseminating the outcomes of research work.

Outline Syllabus

Students will undertake the necessary preparation associated with their Research Projects. This includes literature searching (and databases) required for establishing the rationale for the planning of the work necessary to achieve clearly defined objectives. Students will also be guided to plan, organise and carry out research work independently and autonomously while working in scientific laboratories to perform research experiments. Students will also be trained in aspects of research ethics, commercialisation, as well as the analysis and presentation of scientific outcomes.

Learning Outcomes

Outcome Number	Description
01	1 Evaluate the scientific literature and the general state of knowledge applicable to the selected research project.
02	2 Exercise autonomous and independent learning.
03	3 Evaluate research methods associated with a quantitative research project.
04	4 Understand the health and safety regulations relevant to laboratory work.
05	5 Understand the ethical issues associated with research procedures and outcomes.
06	6 Understand qualitative and quantitative methods of data handling and presentation.
07	7 Demonstrate time management and organisation skills necessary for efficient and successful project management.
08	8 Design and execute a research plan.

Learning, Teaching and Assessment Strategy

This module will be taught by a series of lectures, seminars, tutorials and workshops. There will be two principle assessments:

- (1) A 30 minute oral presentation (50%) outlining the research project plan, literature search strategy, data overview and Gantt chart relating to the research project plan.
- (2) A research portfolio consisting of three computational lab reports based on delivered workshops. Each lab report will include evidence of:
 - (a) methodological understanding
 - (b) data analysis
 - (c) relevant biological (or chemical) interpretation

Mode of Assessment

Type	Method	Description	Length	Weighting
Summative	Presentation	Presentation (30 Minutes)	30 mins	50%
Summative	Coursework	Research preparation portfolio	N/A	50%

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.

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