

Module Details	
Module Title	Research Project Preparation and Plan
Module Code	BIS7022-B
Academic Year	2023/4
Credits	20
School	School of Chemistry and Biosciences
FHEQ Level	FHEQ Level 7

Contact Hours	
Type	Hours
Online Lecture (Synchronous)	4
Seminars	12
Practical Classes or Workshops	25
Tutorials	6
Directed Study	153

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
<p>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.</p> <p>Students will also be trained in various aspects of data analysis.</p> <p>Students will be guided to plan, organise and carry out research work independently and autonomously while working in scientific laboratories to perform research experiments.</p> <p>A seminar series is included to expose students to a variety of research approaches and career paths.</p>

Learning Outcomes	
Outcome Number	Description
01	Evaluate the scientific literature and the general state of knowledge applicable to the selected research project.
02	Exercise autonomous and independent learning.
03	Understand qualitative and quantitative methods of data handling, analysis and presentation.
04	Understand the ethical and safety issues associated with research procedures and outcomes.
05	Demonstrate time management and organisation skills necessary for efficient and successful project management.
06	Design and execute a research plan.

Learning, Teaching and Assessment Strategy
<p>This module will be taught by a series of lectures, seminars, tutorials and workshops.</p> <p>There will be two principle assessments:</p> <p>(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.</p> <p>(2) A research portfolio consisting of three reports based on delivered workshops. Each lab report will either include:            (2a) evidence of methodological understanding, data analysis and relevant biological (or chemical) interpretation; or (2b) A review of the primary workshop topic, discussion and associated literature.</p>

Mode of Assessment			
Type	Method	Description	Weighting
Summative	Presentation	Presentation (30 Minutes)	50%
Summative	Coursework - Portfolio/e-portfolio	Research preparation portfolio (3000 words)	50%

Reading List
To access the reading list for this module, please visit <a href="https://bradford.rl.talis.com/index.html">https://bradford.rl.talis.com/index.html</a>

*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.*