

Module Details	
Module Title	Research Skills, Professional Development and Commercial Awareness
Module Code	CFS7025-B
Academic Year	2023/4
Credits	20
School	School of Chemistry and Biosciences
FHEQ Level	FHEQ Level 7

Contact Hours	
Type	Hours
Online Tutorials (Synchronous)	14
Lectures	14
Directed Study	172

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 1

Module Aims
<p>This course serves as the introduction to your MSc in Materials Chemistry and MSc in Analytical Sciences. Students will come to the programme with a variety of different backgrounds and this module will allow students to identify their areas of strength, and to propose appropriate training for any areas that require improvement. Students will be introduced to reflective practice and this module will provide a framework by which their other scholarship activities can be managed. The MSc in Materials Chemistry and MSc in Analytical Sciences are research-focused. This module will provide background on the research / commercial-world interface, and will introduce students to issues such as intellectual property and knowledge transfer. This module also serves as an introduction to the research project, thus project management as well as associated 'soft' research skills will also be covered.</p>

Outline Syllabus
<p>Developing reflective practice, identifying training needs. ICT skills - managing references, conducting searches, accessing the literature. Correct referencing styles. Selection of appropriate research and management theory. Practical skills of managing a project. Time management. Developing a scientific project plan. Principles of project planning. Project selection and specification. The project life cycle. Commercial considerations of research.</p>

Learning Outcomes	
Outcome Number	Description
01	Evaluate the possibly conflicting requirements of commercial and academic research
02	Understand the role of reflective practice in their continuing professional development
03	Examine the role of IP and knowledge transfer in research
04	Apply project management tools
05	Identify training requirements needed for the completion of a piece of work
06	Design a research project plan
07	Write fully referenced scientific documents
08	Develop a strategy to organise and manage literature searches
09	Undertake project planning, and develop approaches to monitor and critically reflect on progress
10	Prepare Gantt charts

Learning, Teaching and Assessment Strategy
<p>Through introductory lectures students will be introduced to the concept of reflective practice. At the start of the module students will be assigned to a project tutor and will discuss project outlines.</p> <p>Students will complete a diagnostic questionnaire and with the help of their tutor will identify any requirements for further training, be it for a specific piece of equipment, or a CPD course offered by the university.</p> <p>Directed study will provide students with the opportunity to undertake guided reading and to develop their own portfolio of learning to enhance transferable skills and knowledge relating to evaluation of own role and subject provision.</p>

Mode of Assessment			
Type	Method	Description	Weighting
Summative	Coursework - Written	Training Plan	50%
Summative	Coursework - Written	Project Plan	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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