

Personal and Professional Development in Biomedical Science

Module Code:	BIS7009-C
Academic Year:	2018-19
Credit Rating:	30
School:	School of Chemistry and Biosciences
Subject Area:	Biomedical Science
FHEQ Level:	FHEQ Level 7 (Masters)

Pre-requisites:

Co-requisites:

Contact Hours

Type	Hours
Lectures	6
Practical classes and	27
Tutorials	7
Directed Study	260

Availability Periods

Occurrence	Location/Period
BDA	University of Bradford / Academic Year (Sept - May)

Module Aims

This module will provide students with skills for the future personal and professional development with the aim of increasing future employability and/or further study. This will be done through the development of personal reflective practice and professional skills, including communication, co-operative working and best laboratory practice/management.

Outline Syllabus

Visit and orientation to the library; information retrieval and critical analysis of the material/source; primary and secondary sources; formulation of an objective structured argument; scientific writing and critique, peer review; plagiarism; preparing journal club

presentations, posters and Powerpoint presentations; reflective practice methodologies and preparation of a PebblePad portfolio; using troubleshooting and root-cause analysis for service improvement; intellectual property and commercialisation; CV preparation; employability skills; preparing a PhD application; mock PhD interviews (optional).

Module Learning Outcomes

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

- 1 Explain and critically review a controversial issue in biomedical science.
- 10 Demonstrate effective reasoned argument.
- 11 Retrieve and organise information/data.
- 12 Analyse strengths and weaknesses through reflective practice and develop action plans for personal and professional development.
- 13 Peer review.
- 14 Identify, evaluate and use (optional) key employability skills.
- 2 Critically evaluate and communicate scientific data and literature through visual, verbal and written media and peer-review process.
- 3 Have an appreciation of the methods used to target specific audiences.
- 4 Engage in reflective practice and peer review and understand the importance of these personal and professional development.
- 5 Demonstrate an understanding of biomedical research and scientific method.
- 6 Understand the key factors involved in the provision and management of quality laboratory data in different healthcare settings.
- 7 Understand the principles of root-cause analysis and its role in service improvement.
- 8 Undertake critical thinking and evaluation of scientific data.
- 9 Communicate effectively using a range of written, verbal and visual media.

Learning, Teaching and Assessment Strategy

A lecture programme is provided to deliver core knowledge, and related background skills, in support of the experiential learning components within this module.

Tutorials, workshops, self study and peer view will be used to further develop critical analysis, planning and communication skills. Tutor-led facilitated sessions and tutorials will also be used to develop reflective practice skills and to guide students in the preparation of a PebblePad portfolio of evidence. The application of root-cause analysis for identifying/rectifying laboratory problems will be achieved through case studies using a team-based learning approach.

Teaching and learning will be supported through coursework assessment, which will involve verbal and written communication skills. Objective analysis of information and peer review will be assessed by looking at a complex ethical/scientific topic. Other aspects will be assessed through submission of a reflective practice portfolio.

Directed study time should be used to undertake further research on the topics covered, to prepare for module assessments and to complete the reflective practice portfolio using PebblePad.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Coursework	Individual journal club presentation		25%	No
Summative	Coursework	An essay relating to a current area of controversy in biomedical sciences balancing ethical and scientific arguments and aimed at an educated non-specific audience	-2000 words	30%	No
Summative	Coursework	Peer review of a colleague's essay		5%	No
Summative	Coursework	Reflective practice portfolio with supporting linked evidence submitted using PebblePad	-2500 words	40%	Yes

Legacy Code (if applicable)

BM-9146V

Reading List

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