

| Module Details | |
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| Module Title: | Research Project Preparation and Plan |
| Module Code: | BIS7022-B |
| Academic Year: | 2019-20 |
| Credit Rating: | 20 |
| 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 | 12 |
| Seminar | 12 |
| Practical classes and workshops | 16 |
| Tutorials | 6 |
| Directed Study | 154 |

| Availability | |
|--------------|---|
| Occurrence | Location / Period |
| BDA | University of Bradford / Semester 2 (Feb - May) |

| Module Aims |
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| To provide a comprehensive training that facilitates the preparation required to successfully execute bioscience 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 |
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| 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. In particular, students will be guided in aspects of biological, chemical and physical safety regulations and practices in bioscience research work. In addition, students will also be trained in aspects of research ethics, commercialisation, as well as the analysis and presentation of scientific outcomes.

Learning Outcomes

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| 1 | Evaluate the scientific literature and the general state of knowledge applicable to the selected research project. |
| 2 | Exercise autonomous and independent learning. |
| 3 | Evaluate laboratory (or other research) methods associated with a bioscience research project. |
| 4 | Understand the health and safety regulations relevant to laboratory work. |
| 5 | Understand the ethical issues associated with research procedures and outcomes. |
| 6 | Understand qualitative and quantitative methods of data handling and presentation. |
| 7 | Demonstrate time management and organisation skills necessary for efficient and successful project management. |
| 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.

The module will be assessed by a 30 minute presentation (50%) outlining the research project plan to be carried out in the two related modules.

The other assessment will be by a portfolio of work (50%) that will consist of collated items to include:

- (a) notes from at least 3 seminars,
- (b) Gantt Chart relating to the Research Project plan,
- (c) Evidence of a literature search strategy, and
- (d) Lecture notes on data analysis, data presentation, ethics and research commercialisation, to demonstrate engagement with, and an understanding of, a broad range of research related activities.

Mode of Assessment

| Type | Method | Description | Length | Weighting |
|-----------|--------------|--------------------------------|--------------|-----------|
| Summative | Presentation | Presentation | 30 minutes | 50% |
| Summative | Coursework | Research preparation portfolio | 0-2500 words | 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.