Research Project

Module Code: BIS7005-E
Academic Year: 2018-19
Credit Rating: 60
School: School of Chemistry and Biosciences
Subject Area: Biomedical Science
FHEQ Level: FHEQ Level 7 (Masters)

Pre-requisites:
Co-requisites: Experimental Design 2018-19, Research and Analytical

Contact Hours

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Tutorials</td>
<td>15</td>
</tr>
<tr>
<td>Laboratory</td>
<td>300</td>
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<tr>
<td>Directed Study</td>
<td>285</td>
</tr>
</tbody>
</table>

Availability Periods

<table>
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<tr>
<th>Occurrence</th>
<th>Location/Period</th>
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<tbody>
<tr>
<td>BDA</td>
<td>University of Bradford / Semester 3 (June - Oct)</td>
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Module Aims

To develop self-direction and originality in the application of knowledge and problem solving in a practical-based research project. Evaluate critically a current area of research in Biomedical Science. To develop comprehensive understanding of appropriate techniques, their limitations and how those techniques can be used to create and interpret knowledge; to demonstrate analytical, critical evaluation, statistical and IT skills in the presentation of a practical research report and a scientific poster; to demonstrate knowledge, understanding and critical analysis in an oral (viva voce) assessment.

Outline Syllabus

As agreed with the project supervisor.
Module Learning Outcomes

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

1. Explain and critically evaluate specialist subject areas
2. Critically evaluate and communicate scientific data in context of published work
3. Demonstrate self-direction & originality in implementing a biomedical research project
4. Research and analyse a current problem in Biomedical Sciences
5. Demonstrate critical thinking
6. Demonstrate an understanding of research and scientific method
7. Undertake critical thinking
8. Demonstrate effective written & oral communication skills by a research dissertation & viva voce
9. Develop an IT strategy to organise & refer to literature, & present data in an appropriate manner in a dissertation
10. Employ statistics where relevant
11. Undertake project planning & time management, agree objectives, responsibilities & working arrangements
12. Demonstrate effective time management
13. Work with a supervisor & technical staff to plan, agree objectives, responsibilities & working arrangements. Explore problems & compare & select options to overcome them

Learning, Teaching and Assessment Strategy

Each student has extensive choice allowing a topic of interest to be researched. Following background reading from the scientific literature, an extended research project is carried out over 9 weeks under supervision of a member of academic staff. Students are responsible for the legislative aspects of the projects (COSH assessment etc., biological safety, working with genetically modified organisms). The unit develops and enhances student autonomy in learning.

Mode of Assessment

<table>
<thead>
<tr>
<th>Type</th>
<th>Method</th>
<th>Description</th>
<th>Length</th>
<th>Weighting</th>
<th>Final Assess'</th>
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<tbody>
<tr>
<td>Summative</td>
<td>Coursework</td>
<td>Project report</td>
<td>0-10000 words</td>
<td>60%</td>
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<tr>
<td>Summative Coursework</td>
<td>Laboratory performance/research proposal for dissertation</td>
<td>10%</td>
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<td>Summative Coursework</td>
<td>Viva voce on research project/dissertation</td>
<td>15%</td>
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<td>Summative Coursework</td>
<td>Prepare a scientific poster on research project</td>
<td>15%</td>
<td>No</td>
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**Legacy Code (if applicable)**

BM-9129Z

**Reading List**

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