

Liverpool John Moores University

Title: MSC INDUSTRIAL BIOTECHNOLOGY TUTORIALS
Status: Definitive
Code: **7003BTBMOL** (101529)
Version Start Date: 01-08-2012

Owning School/Faculty: Pharmacy & Biomolecular Sciences
Teaching School/Faculty: Pharmacy & Biomolecular Sciences

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Academic Level: FHEQ7 **Credit Value:** 10.00 **Total Delivered Hours:** 15.00
Total Learning Hours: 100 **Private Study:** 85

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Tutorial	15.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	Grant	Written assignment - research grant proposal	50.0	
Presentation	Tutorial	Oral communication - performance in tutorials, to include oral presentation	50.0	

Aims

To provide a series of integrative tutorials that are designed to form links between modules studied during the MSc programme and examine topics of current biotechnological interest. The module is student-centred and affords an opportunity to promote skills in independent study, as well as group discussion, planning and development via team effort.

Learning Outcomes

After completing the module the student should be able to:

- 1 appraise the programme, appreciating the rapidly emerging technologies and diversity of applications in biotechnology, together with their social, ethical and economic importance;
- 2 formulate a research proposal in biotechnology, with an awareness of the requirements of research council grant applications;
- 3 discuss constructively with a peer group the planning and methodology required to develop a research proposal in biotechnology;
- 4 use different methods for communicating scientific information, both individually and as part of a team.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Written research grant proposa	1	2	4	
Oral communication	1	2	3	4

Outline Syllabus

Topics relevant to current areas of research in biotechnology. Examples include: biocontrol, bioremediation, bioprocessing, bioprospecting, genomics, proteomics, genetically-modified (GM) crops, fermentation technology.

Topics may change with new developments.

Review and preparation of grant proposals. Discussion of published scientific articles.

Presentation of seminars.

Learning Activities

Tutorials- the major activity is the writing and oral defence of a research grant proposal on a specific aspect of biotechnology. There is also an opportunity for personal development planning (PDP).

Indicative references - selected scientific publications as appropriate to the subject area, relevant journals.

References

Course Material	Book
Author	Selected scientific publications appropriate to the subject area, relevant journals.
Publishing Year	0
Title	
Subtitle	
Edition	
Publisher	
ISBN	

Notes

The MSc Industrial Biotechnology Tutorials module serves to interrelate the modules studied on the MSc programme and increase awareness of current issues in biotechnology. The module is designed to promote students as independent, reflective learners, providing them with an opportunity to review, appraise and analyse critically material in biotechnology and consolidate their ability to communicate in both written and oral form. It also develops competence in other key skills, including IT and team work.

The coursework component that is recorded as 'essay' is a written grant proposal.