Module Specification

Module Title	Biomedical Pharmacology	Module Code	BMD225

Credit Value	15	Level	5	Mode of Delivery	On Campus	Semester B

Pre-requisite modules	Co-requisite modules	Overlapping modules
Module is restricted to B990 and B140 students	BMD221	

1) Content Description

Provide a description of the module, as it will appear in the Module Directory and on the Student Information System (approx. 70-80 words).

This module provides an introduction to the subject of pharmacology, the study of drug action on biological systems. Initial lectures focus on important general pharmacological principles, including a consideration of how drugs are absorbed, distributed and then removed from the body. Subsequent lectures focus on the therapeutic action of drugs on example disease states of specific physiological systems.

2) Module Aims

Specify the aims of the module, i.e. the broad educational purposes for offering this module.

To introduce basic pharmacological concepts essential to understanding the effects of drugs on living systems. To present examples of pharmacological treatment approaches in selected pathologies of the body's physiological systems. To present examples of the use of pharmacologically active compounds in circumstances other than for therapeutic use.

3) Learning Outcomes

Identify the learning outcomes for this module, i.e. knowledge, skills and attributes to be developed through completion of this module. Outcomes should be referenced to the relevant QAA benchmark statements and the Framework for Higher Education Qualifications in England, Wales and Northern Ireland (2008). The SEEC Credit Level Descriptors for Further and Higher Education 2003 and Queen Mary Statement of Graduate Attributes should also be used as a guiding framework for curriculum design.

Academic Content:	
A1	Knowledge of major pharmacodymanic and pharmacokinetic principles
A2	Knowledge of the drug treatment of selected medical conditions affecting physiological systems
A3	Knowledge of variables that can influence the action of drugs in an individual
A4	Knowledge of the drug discovery process
A5	Experience in the of analysis of pharmacological data

Disciplinary skills - able to:	
B1	Present concise, analytical and objective scientific information relating to pharmacology and Identify and assimilate relevant scientific information

Attributes:	
C1	Students will learn how to identify relevant core material and to be able to supplement this with appropriate examples from the scientific literature
C2	The module structure will encourage students to develop the ability to organize information and retrieve it effectively and Numeracy and the ability to present a structured argument based upon scientific reasoning will be developed

4) Reading List

Provide an indicative reading list for the module. This should include key texts and/or journals but should not be an exhaustive list of materials.

Core text:

Rang, H.P., Ritter, J.M. Flower, R. & Henderson, G. (2015) Rang & Dale's Pharmacology, 8th Ed. Churchill Livingstone.

Additional recommended texts:

Waller, D., Sampson, D., Renwick, A. & Hillier, K. (2014) Medical Pharmacology and Therapeutics, 4th Ed. Saunders

Hitchings, A., Lonsdale, D., Burrage, D. and Baker, E. (2015) The Top 100 Drugs: Clinical Pharmacology and Practical Prescribing, Churchill Livingstone

5) Teaching and Learning Profile

Provide details of the method of delivery (lectures, seminars, fieldwork, practical classes, etc.) used to enable the achievement of learning outcomes and an indicative number of hours for each activity to give an overall picture of the workload a student taking the module would be expected to undertake. This information will form the Key Information Set for each undergraduate programme and will be used to populate the KIS widget found on the QMUL programme information pages. More information can be found online about KIS. You may also wish to refer to the QAA guidance on contact hours when completing this section.

Activity Type	KIS Category	Time Spent (in hours)
Lecture	Scheduled	22
Tutorial	Scheduled	5
	Total	27

Specify the total module notional study hours. This should be a total of the hours given for each activity. The notional study hours for each academic credit point is 10. A 15 credit point module therefore represents 150 notional study hours.

Activity Type	Total Time Spent (in hours)	Percentage of Time Spent
Scheduled learning and teaching	27	18
Placement	0	0
Independent Study	123	82
Total	150	100

Use the information provided in the box above to specify the total time spent and the percentage time spent in each category of teaching and learning activity.

6) Assessment Profile

Provide details of the assessment methods used to assess the achievement of learning outcomes.

Description of Assessment	Assessment Type	KIS Category	Duration/Length	Percentage Weighting	Final element of assessment	Qualifying Mark
Examination	Exam	Coursework	2.5 Hours	75%	Yes	
Coursework	Written Assessment	Coursework		25%	No	

Final element of assessment: The assessment that takes place last. There should normally be only one element of assessment marked as final unless two assessment or submission dates occur on the same day.

Qualifying mark: A specified minimum mark that must be obtained in one or more elements of assessment in order to pass a module. This is in addition to, and distinct from, the requirement to achieve a pass in the module mark to pass the module.

Reassessment

Provide details of the reassessment methods used, specifying whether reassessment is either standard reassessment or synoptic reassessment.

○ Standard Reassessment ◉ Synoptic Reassessment

Synoptic reassessment details (if you have indicated synoptic reassessment above, please give details)		
Brief Description of Assessment	Assessment Type	Duration/Length of Examination/ Coursework
Examination	Exam	2.5 Hours