

Applied and Diagnostic Pathology

Module Code:	BIS7008-B
Academic Year:	2018-19
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	16
Tutorials	6
Directed Study	175
Examinations DO NOT USE	3

Availability Periods

Occurrence	Location/Period
BDA	University of Bradford / Semester 1 (Sep - Jan)

Module Aims

1. To provide an introduction to clinical pathology with an overview of disease classification and mechanisms of disease.
2. Understand of the role played by the histopathology services in the diagnosis of disease.
3. Develop an overview of how the diagnostic process contributes to the planning of appropriate treatment pathways for patients.

Outline Syllabus

Introduction to clinical pathology; Classification and causes of disease; Disease Mechanism: response to injury, disorders of growth and differentiation, inflammation,

immunopathology, carcinogenesis; Diagnostic Pathology - a biopsy's journey through a histopathology lab: specimen reception and cut-up, processing and staining and special techniques, microscopic examination and additional investigation, the multi-disciplinary team meeting, audit; Applied Pathology: e.g. breast pathology/ prostate pathology/neuromuscular pathology/neurodegenerative pathology; Role of histopathology lab in diagnostic process.

The Spot Test Mode of Assessment will be based on module content to include interpretation of pathological images and/or documentation followed by a short answer questions.

Assessment 001 cont./

Students will have an opportunity to read the report, annotate it and follow-up on its content in advance of the examination. During the examination students will be asked to answer 5 questions (out of 5). Students will be permitted to bring an annotated report to the examination.

Module Learning Outcomes

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

- 1 Describe the causes and mechanisms of general and specific disease processes.
- 2 1.2 Describe the diagnostic process in clinical pathology through an understanding of effective histopathology laboratory and clinical services.
- 3 Describe the role of the multi-disciplinary team in effective planning of appropriate treatment for patients.
- 4 Describe the role of audit in maintaining standards.
- 5 Describe the role of histopathology laboratory in the clinical diagnostic process.
- 6 Analyse and interpret data presented in format of case studies; demonstrating critical thinking and deductive skills.
- 7 Plan an audit; demonstrating a skill needed to maintain standards and ensure effective delivery of a specific targets or services.
- 8 Present information and construct arguments orally and in writing.
- 9 Demonstrate ability to work as a member of a team.

Learning, Teaching and Assessment Strategy

Core information will be delivered in lectures. These will be supported by 'In practice' sessions in which background information presented at the beginning of the module are critically discussed in the context of diagnostic histopathology. There will be a visit to a histopathology department (St James' Hospital, Leeds) to give students an opportunity to see a working diagnostic laboratory and provide them with practical insight into applied diagnostic pathology.

The lectures will be supported by 'Interpretation & Analysis' workshops which will present

students with examples of 'spot test' analyses/problem solving/troubleshooting exercises.

In directed study time, students will be required to prepare for group presentations: this will entail preparing lecture material and presenting their work on a designated subject area relevant to the content of the module.

Directed study time will also be used to prepare for a written report: this will entail detailed investigation of a designated subject area as part of a group, followed by an individual written report to address a specific task e.g. write an information sheet, design a laboratory protocol. The aim of this assessment strategy is to engage the student in writing work-related documents.

The students will also be required to prepare for critical presentation of a designated subject area: this may take the format of a debate in which students will work in groups to present the case either for or against a current issue in cellular pathology.

Directed study time will be used to prepare for 2 hr closed book

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Examination - open book or seen paper	Students will be provided a report to evaluate in advance of the exam	2 hours	70%	No
Summative	Coursework	An Assignment will be set for groups of students to work on. Individual Written Report (1500 words)	-1500 words	30%	Yes

Legacy Code (if applicable)

BM-9145D

Reading List

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