

## MODULE DESCRIPTOR

### Module Title

Diagnostic Histology and Cytology

Reference	PL3504	Version	1
Created	April 2023	SCQF Level	SCQF 9
Approved	June 2023	SCQF Points	15
Amended	August 2021	ECTS Points	7.5

### Aims of Module

To provide students with the ability to explain the techniques, methods and role of histopathology in the diagnosis and treatment of disease.

### Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Demonstrate knowledge of the diagnostic value of specialised procedures such as histochemistry, immunocytochemistry and electron microscopy.
- 2 Explain the use of cytological specimens to diagnose disease.
- 3 Distinguish between the gross structure and ultrastructure of cells and tissues in the normal and diseased state.

### Indicative Module Content

Histopathology and Histochemistry: specialized procedures and staining. Immunocytochemistry: use of tumour markers and applications of molecular techniques. Electron Microscopy: applications in the diagnosis of disease. Cytopathology: screening programmes; recognition of cell types and changes brought about by disease. Diagnostic Cytopathology: recognition of cell types in respiratory specimens and body fluids, fine needle aspiration. Histopathology: the general basis of disease, the changes in cells and tissues associated with inflammation, thrombosis, infarction and tumours. The applications of the above techniques and knowledge to aid diagnosis and treatment selection.

### Module Delivery

This is a lecture based course supplemented with tutorial sessions, case studies, laboratory work and practical demonstrations.

**Indicative Student Workload**

	Full Time	Part Time
Contact Hours	40	N/A
Non-Contact Hours	110	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	150	N/A
<i>Actual Placement hours for professional, statutory or regulatory body</i>		

**ASSESSMENT PLAN**

If a major/minor model is used and box is ticked, % weightings below are indicative only.

**Component 1**

Type:	Examination	Weighting:	100%	Outcomes Assessed:	1, 2, 3
Description:	Unseen, closed book examination.				

**MODULE PERFORMANCE DESCRIPTOR****Explanatory Text**

Component 1 (EX1) comprises 100% of the module grade. A minimum of a Grade D is required to pass the module.

Module Grade	Minimum Requirements to achieve Module Grade:
<b>A</b>	A
<b>B</b>	B
<b>C</b>	C
<b>D</b>	D
<b>E</b>	E
<b>F</b>	F
<b>NS</b>	Non-submission of work by published deadline or non-attendance for examination

**Module Requirements**

Prerequisites for Module	Successful completion of Stage 2 of the course, or equivalent.
Corequisites for module	None.
Precluded Modules	None.

**INDICATIVE BIBLIOGRAPHY**

- 1 SUVARNA, K., et al. Bancroft's Theory and Practice of Histological Techniques. 8th Edition, 2018: Churchill Livingstone.
- 2 GRAY, W. and KOCJAN, G. *Diagnostic Cytopathology*. 3rd Edition, 2010: Churchill Livingstone.
- 3 YOUNG, B., et al. *Wheater's Basic Pathology: A Text, Atlas and Review of Histopathology*. 6th Edition, 2019: Churchill Livingstone.
- 4 KIERNAN, J.A. *Histological and Histochemical Methods: Theory and Practice*. 5th Edition, 2015: Scion Publishing
- 5 COOK, D.J. and WARREN, P.J. *Cellular Pathology*. 3rd Edition, 2015: Scion Publishing.
- 6 SHAMBAYATI, B. *Cytopathology* 2nd Edition, 2018: Oxford University Press.
- 7 ORCHARD, G. and NATION, B. *Histopathology* 2nd Edition, 2018: Oxford University Press.