Module Title Cellular Pathology	Reference AS4018 SCQF SCQF Level 10 SCQF Points 15
Keywords Histopathology, histochemistry, immunocytochemistry, electron microscopy, cytopathology, disease.	ECTS Points 7.5 Created July 2002 Approved September 2004 Amended May 2011 Version No. 3

This Version is No Longer Current

The latest version of this module is available <u>here</u>

Prerequisites for Module	Module Indicative Student Workload	
		Full
In addition to SCQF 10 entry	Contact Hours	Time
requirements, students should	Assessment	4
be familiar with the	Hospital Visit	2
fundamentals of human	Laboratory Work	10
cytology and histology.	Lectures/Tutorials/Seminars	24
Corequisite Modules	Directed Study	
None.	Directed Study	30
Precluded Modules	Private Study	
	Private Study	80
None.	Mode of Delivery	
Aims of Module	This is a lecture based course supplemented with tutorial sessions, case studies, laboratory work and practical demonstrations.	
To provide students with the ability to explain the techniques, methods and role		

Assessment Plan

Learning Outcomes for

of histopathology in the

diagnosis of disease.

Learning Outcomes
Assessed

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

- 1.Discuss the specialised procedures and staining of histological specimens.
- 2.Discuss the diagnostic value of specialised procedures such as histochemistry, immunocytochemistry and electron microscopy.
- 3. Discuss the preparation of cytological specimens.
- 4.Distinguish between the structure of cells and tissues in the normal and diseased state.

Indicative Module Content

Histopathology: specialised procedures, principles of colouration and staining. Histochemistry: pigments, lipids, nucleic acids and enzymes. Image analysis. Interpretation of microscopic sections.

Immunocytochemistry and its value. Use of tumour markers. Applications of molecular techniques. Electron Microscopy: applications in the diagnosis of disease. Cytopathology: screening programmes. Recognition of cell types and the changes brought about by

Component 1	1,2,3
Component 2	4

Component 2 is assessed by an oral presentation.

Component 1 is assessed by a closed book examination.

Indicative Bibliography

- 1.BANCROFT, J.D. AND GAMBLE, M. *Theory and Practice of Histological Techniques*. Current Edition. Churchill Livingstone.
- 2.GRAY, W. AND McKEE, G.T. (ed.). *Diagnostic Cytopathology*. Current Edition. Churchill Livingstone.
- 3.YOUNG,B., O'DOWD,G. and STEWART, W. Wheater's Basic Pathology: A Text, Atlas and Review of Histopathology. Current Edition. Churchill Livingstone.
- 4.KIERNAN, J.A. *Histological and Histochemical Methods : Theory and Practice*. Current Edition. Scion Publishing

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.