	Reference AS SCQF SO	3901 CQF
Module Title	Level	9
Clinical Immunology	SCQF Points	15
	ECTS Points	7.5
Keywords	Created May	2002
Lymphocyte Activation and Control, Infection, Hypersensitivity, Autoimmunity, Immunodeficiency,	∥ Approved	May 2011
Transplantation, Cancer, Immunoassays.	∥ A mended	May 2008
	Version No.	1

This Version is No Longer Current

The latest version of this module is available here

Prerequisites	for	Mod	ule
----------------------	-----	-----	-----

AS1901 Biology for Life Sciences, AS2901 and AS2902 Human Anatomy and Physiology or equivalents. Transplantation: rejection, solid

organs, bone marrow.

Cancer: tumour antigens, evasion.

Immunoassays:

haemagglutination, RIA, ELISA, tissue typing, functional assays.

Corequisite Modules

None. Indicative Student Workload

1,0110.		_ 441
	Contact Hours	Full Time
Precluded Modules	Lectures	32
	Supervised	2
None.	Assessments	2
	Tutorials/Seminars	6
Aims of Module		
	Directed Study	
To provide students with the	Directed Study	40
ability to discuss the molecular	·	
and cellular basis of diseases	Private Study	
affecting the immune system, and	Private Study	70
the applications of	111: 000 ≈ total	. 0

immunological techniques designed to diagnose and monitor them.

Learning Outcomes for Module

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

- 1.Discuss lymphocyte activation and control, and the interaction of the immune system with antigen.
- 2. Explain the immunology of hypersensitivity, autoimmunity, immunodeficiency, transplantation and cancer.
- 3.Explain the features and applications of immunoassays in the diagnosis and monitoring of diseases affecting the immune system.

Indicative Module Content

Lymphocyte Activation & Control: first and second signals, accessory molecules, soluble immunoregulators (cytokines, interleukins, chemokines). Defence against Infection: vaccination, subversion by pathogens, superantigens. Hypersensitivity: types I to V. Autoimmunity: MHC, rheumatological (SLE, RA, autoantibodies) and kidney(Goodpastures) and

Mode of Delivery

This is a lecture based module supplemented by tutorials and group discussions.

Assessment Plan

	Learning Outcomes Assessed
Component 1	2,3
Component 2	1

Component 2 is assessed by a problem solving exercise.

Component 1 is assessed by an examination that will consist of extended response questions.

Indicative Bibliography

- 1.HALL, A., SCOTT, C.,and BUCKLAND, M. *Clinical Immunology*. Current edition. Oxford University Press.
- 2.DELVES, P.J., MARTIN, S.J., BURTON, D.R and ROITT, I.M. Roitt's Essential Immunology. Current Edition. Wiley-Blackwell Publishing.

organ-specific (thyroid, coeliac, pernicious anaemia, diabetes) diseases. Immunodeficiency: Complement, primary (T & B & NK cell) and secondary (HIV).