Amended May 2011	Genomics and Proteomics  Level 1  SCQF Points 1	ule Title omics and Proteomics  vords and Peptide sequencing, Relevance in original and Biomedical Research	SCQF Poin ECTS Poin Created Jr ApprovedJr	SCQF 10 ts 1: ts 7.: uly 2002 uly 2002	0 5 5 2 2
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# This Version is No Longer Current

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

<b>Prerequisites for Module</b>	Proteomics will include 2-D gel electrophoresis, handling of
AS3018 or equivalent.	proteins and peptide samples for
Caragnisita Madulas	proteomics and their relevance in
<b>Corequisite Modules</b>	targeted protein expression and function analysis in health and
None.	disease.

## **Precluded Modules**

None	In	dian	tixo	Cti	dent	XX	arl	امما	1
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Aims of Module	Contact Hours	Full Time
	Assessment	5
To enable students to appreciate	Lectures	4
the use and relevance of a number of analytical	Seminars	6
methods/techniques in the	Directed Study	
analysis of biomolecules in research.	Directed Study	60
	Private Study	
<b>Learning Outcomes for Module</b>	Private Study	75

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

- 1.Discuss the principles and applications of genomics and proteomics in biological and biomedical research.
- 2.Discuss genomics and proteomics applications in relation to health and disease.

#### **Indicative Module Content**

Composition, structure and properties of DNA and proteins. Genomics will include principles and applications of DNA sequencing, DNA micro-arrays and their relevance in targeted gene expression and function analysis in health and disease.

### **Mode of Delivery**

This module is delivered by lectures and seminars.

#### **Assessment Plan**

	Learning Outcomes
	Assessed
Component 1	1,2

Component 1 is assessed by an abstract and a formal group presentation on a biomedical case study.

### **Indicative Bibliography**

- 1.DALE, J.W. and VON SCHANTZ, M., 2007. From Genes to Genomes, Concepts and Applications of DNA Technology. 2nd ed. John Wiley.
- 2.PAGEL, M. and POMIANKOWSKI, A.,2008. Evolutionary Genomics and Proteomics. Sinauer Associates.
- 3.LESK, A.M., 2008. Introduction to Bioinformatics. 3rd ed. Oxford University Press.