

Module Title:	Protein Biology
Academic year:	2009 2010
Credit Value:	6
Pre- requisites:	Biology 1 and 2
Assessment:	Term Exams (50%) Laboratory Reports Exam (35%) Mid-Term Continuous Assessment Exams (15%)
Aims	<p>This module aims to provide the student with:</p> <ul style="list-style-type: none"> ▪ Identify the nature and structure of amino acids and proteins. ▪ An understanding of the principles of protein isolation and purification, and the necessary skills to isolate and characterise proteins. ▪ An understanding of protein diseases and of the roles played by proteins in medicine. ▪ Practical skills to be able to set-up and use electrophoretic systems for the separation and analysis of proteins. ▪ Practical skills and knowledge to be able to select and apply different analytical techniques to separate, isolate and study protein preparations.
Module Content	<p>Introduction to Proteins Proteins in Motion Proteins in Medicine Protein Disease Protein Assays Protein Purification Electrophoresis Chromatography</p>

Intended Learning Outcomes:
(September 2007)

At the end of this module the student will be able to:

- Identify the nature and structure of amino acids and proteins.
- Identify protein diseases and the roles played by proteins in medicine.
- Carry out protein purification, electrophoresis and chromatography experiments