Module Title:	Nutritional Biology - Human Nutrition
Academic year:	2009 2010
Credit Value:	5.0
Pre- requisites:	3.1, 4.2
Assessment:	Continuous assessments: 30% (2 x 15% CA assessments) Final examination: 70%
Aims	The aim of this module is to develop the student's comprehension of the metabolic, pathways of the human body their integration and the hormonal control of metabolism. Furthermore, selected clinical disorders in the contexts of describing critical features, functions, and practical applications will be examined throughout the course of this module.
Module Content	The Importance of Nutrition Medical Implications of Nutrition Cellular Enzymes Enzyme Assay Enzymes as Analytical Tools Metabolism: Energy from Food Carbohydrate Analysis Proteins and Amino acid metabolism Making new biomolecules Hormonal Regulation Control
Intended Learning Outcomes:	Upon completion of this module the student will be expected to be able to: 1. Describe the relationship between dietary nutrition and good health 2. Explain the major metabolic pathways for carbohydrates, proteins and lipids 3. Identify key intermediates in the metabolic pathways and explain how they support the integration and control (allosteric and hormonal) of these systems 4. Describe the workings and control of key regulatory enzymes 5. Discuss with examples how enzyme analysis supports diagnosis of various health disorder 6. Identify and explain the basis of selected nutrition related disorders 7. Describe the principles of enzyme assays and

	make valid interpretations of results 8. Describe the laboratory analysis of proteins