SARDAR PATEL UNIVERSITY

Programme: B.Sc (Home Science)

Semester: IV (Food & Nutrition)

Syllabus with effect from: November/December-2012

Objectives:

This course will enable the students to:

- ➤ Understand the functions and sources of nutrients.
- ➤ Apply the knowledge in maintenance of good health for the individual and the community.
- > Be familiar with the factors affecting availability and requirements.

Paper Code:UH04CFDN01	Total Credit, 2	
Title Of Paper: Human Nutrition	Total Credit: 3	

Unit	Description in detail	Weighting (%)
I	Concept and definition of terms Nutrition, malnutrition and health	
	Brief history of Nutritional Science. Scope of Nutrition. Water-	05%
	functions and requirements	
II	Minimal nutrition requirements and RDA- formulation of RDA and	10%
	dietary guidelines- Reference man and reference woman.	
III	Body composition and changes through the life cycle.	15%
IV	Energy in Human Nutrition- Energy Balance, Assessment of energy	10%
	requirements.	
V	Proteins- Assessment of protein quality (BV, PER, NPU), digestion	10%
	and absorption, Factors affecting bioavailability.	1070
VI	Lipids- digestion and absorption, intestinal resynthesis of triglycerides.	10%
	types of fatty acids.	
VII	Carbohydrates- digestion and absorption, blood glucose and effect	
	of different Carbohydrates on blood glucose,	10%
	Glycemic index.	
VIII	Minerals and Trace elements- digestion, absorption and bioavailability	05%
	Calcium, Phosphorus, Iron, Fluoride, Zinc, Selenium, Iodine	0370
IX	Vitamins- Fat soluble and Water soluble.	5%

Basic Text & Reference Books

- ➤ Guthrie A.H. (1986) Introductory Nutrition 6th Ed. The C.V. Mos by company.
- ▶ Robinsin C.H. Lawler M.N. Chenoweth W.L. and Garwicl A.E. (1986) Normal and therapeutic nutrition 17th Ed. Mac Milan publishing Co.
- ➤ Indian counsil of medical research (198) Nutrient requirements and recommended dietary allowances for Indians, New Delhi.
- FAO/WHO/UNU: Technical report series, 74 (1985) energy and protein requirements Geneva.
- > WHO Technical reports series for different nutrients.



