SEMESTER-II (Pool-A)

COURSE NAME: NUTRITION AND HEALTH

(CHOI-A42)

Number of Credit: - 02 Maximum marks: 50

UNIT-I

Introduction to Nutrition Science; Basic Nutrients: Macronutrients-I: Carbohydrates and Water Macronutrients-II: Proteins and Lipids, Vitamins, Minerals; Food Safety; Nutrition Related Disorders Major Deficiency Diseases, Nutrition, and Infection

UNIT-II

Meal Planning: Principles of Meal Planning and MealPlanning for the Adult, Food Budgeting, FoodSelectionFood Storage, Food Preservation and Other Methods of Maximization of Nutritional Benefit.

UNIT-III

Effective utilization of food resources: Food safety; Understand the hazards of food adulteration and apply laws and standards regarding food quality and safety, protect food from different types of food, contamination, -list substances that are accidentally or intentionally added to food items.

UNIT-IV

Common food borne diseases: Identify the types ,causes ,and spread of diarrhea, dysentery, cholera, typhoid, andinfectioushepatitis enumerate their symptoms and complications and describe the factors in the control.prevention management of these diseases; Parasitic Infestation of Man: Identify the common parasitic Infestations of man Taeniasis, Hydatidosis, Ascariasis, Amoebiasis, Giardiasis.

UNIT-V

Dietary Management of Diabetes: Study the role of nutrition in the preventionand management of pre-diabetes and Types 1, 2and gestational diabetes, Dietary Management of Cancer: Diet and cancer are certainly linked diet related risk factors in cancer development as well as evidence-based guidelines for the nutritional management of cancer and treatment-related side effects. Therolesof dietary fiberand probiotics and prebiotics in guthealth.

Recommended Reading Material:

- $1. \ Eastwood, M(2010). Principles of Human Nutrition. Blackwell Publishing 2^{nd} ed. \\$
- 2. Gibney, M.J., Lanham, S.A., Cassidy, N.A., Vorster, H.H (2009). Introduction to Human Nutrition. 2nd ed. Wiley-Blackwell.

- 3. Dennis M.M, Robert E.C (2013) Advanced Human Nutrition Jones & Bartlet.
- 4. Geissler.C,Powers,H(2010)HumanNutritionChurchillLivingstone12thed.5. WhitneyE.N,RolfeS.R(2012)UnderstandingNutritionCengageLearning;13th ed.