B.Sc. Clinical Nutrition and Dietetics Syllabus 2018

SEMESTER II P3: BASIC NUTRITION AND MEAL MANAGEMENT

BASIC NUTRITION (THEORY) UNIT 1

- 1. **Introduction to nutrition** food as a source of nutrients, function of foods, definition of nutrition, nutrients, adequate, optimum and good nutrition, malnutrition.
- 2. Inter-relationship between nutrition and health visible symptoms of good health.
- 3. **Food guide** Basic five food groups how to use food guide.
- 4. Use of food in body-digestion, absorption, transport, utilization of nutrients in the body.
- 5. **Water** as a nutrient, function, sources, requirement, water balance effect of deficiency.
- 6. **Carbohydrates** composition, classification, food sources, functions, storage in body.
- 7. **Fat and Oils** Composition, saturated unsaturated fatty acids, classification food sources, functions of fats.
- 8. **Proteins** Composition, sources, essential, non--essential amino acids, source of proteins, functions, protein deficiency (very brief).
- 9. **Energy** unit of energy, food as a source of energy, energy value of food. The body's need for energy B.M.R. activities, for utilization of food to fat energy requirement.

UNIT 2

- 10. Acid base balance,
- 11. **Minerals** Functions, sources, Bioavailability, and deficiency of following minerals calcium, iron, iodine fluorine, sodium, potassium (in very brief).
- 12. **Vitamins** classification, units of measurement, sources, functions and deficiency (very brief) about following vitamins:
 - a. Fat soluble vitamins D vitamin A b. Vitamin D
 - c Vitamin E d. Vitamin K

Water soluble vitamins:

- a) Ascorbic acid.b) Thiaminc) Riboflavind). Niacin
- e) Other member of B-complex such as B6, Folic acid and B-12.

UNIT3

B.Sc. Clinical Nutrition and Dietetics Syllabus 2018

- 1. Introduction to meal management Balanced diet Food guide Basic 5 food groups.
- 2. **Basic principles of meal planning** objectives-steps in meal planning Food cost.
- 3. **Nutrition in Pregnancy** Physiological stages of pregnancy Nutritional requirements Food selection Complications of pregnancy.
- 4. **Nutrition during Lactation** Physiology of lactation nutritional requirements.
- 5. **Nutrition during Infancy** Growth & development nutritional requirements Breast feeding Infant formula Introduction of supplementary foods.

UNIT 4

- 6. **Nutrition during Early Childhood** (Toddler/preschool) Growth & nutrient needs Nutrition related problems Feeding pattern.
- 7. **Nutrition of school children** Nutritional requirement importance of snacks school lunch.
- 8. **Nutrition during Adolescence, Growth & nutrient needs** Food choices Eating habits factors influencing.
- 9. **Geriatric Nutrition** Factors affecting food intake & nutrient use nutrient needs nutrition related problems.

B.Sc. Clinical Nutrition and Dietetics Syllabus 2018

SEMESTER II Family Meal Management (Practical)

- 1. Basic principles of meal & menu planning.
- 2. Daily food guide Basic five food groups use of food groups. Food costing.
- 3. Planning for adult man & woman during different physical activities sedentary, moderate, heavy worker. Preparation of above diet.
- 4. Planning & preparation of a balanced diet for a pregnant woman Nutritional requirements modification of dietary pattern Complications during various stages of pregnancy.
- 5. Planning & preparation of a balanced diet for a nursing mother modification of normal meal pattern special foods given during lactation nutritional requirements.
- 6. Nutrition during infancy nutritional requirements during infancy-advantages of breast feeding disadvantages of bottle feeding.
- 7. Supplementary feeding preparation of weaning foods.
- 8. Planning & preparation of diet for a toddler pre-school child nutritional requirements -food pattern acceptance.
- 9. Nutrition during school age nutritional considerations planning & preparation of meals/packed lunch.
- 10. Nutrition during adolescence growth and development nutritional requirements. Factors influencing food habits preparation of meal.
- 11. Planning a diet for senior citizen factors affecting food intake & nutrient use special needs nutritional requirements. Preparation of meals.
- 12. Planning of meals for middle income family important considerations in planning meals.