BSHND 310: DIETETICS-III

Course Learning Outcomes:

- To understand the role of nutrition and dietetics in managing disease and preventing complications
- To get hands-on training for the dietary modification of normal diets aligned with various health disorders
- To comprehend the role of nutrition education and policies towards nutrition security

Content-Theory:

1. Diet based regimen to improve the public health;

- Diet supplementation for diseased patients;
- Malabsorption and mineral deficiency;
- 2. Health diets and lifestyles;
 - Preventing diet related diseases;
 - Nutritional implications of various diets;
 - Managing disease and avoiding complications through diet diversification;
- 3. Dietary management in various health disorders (objective, physiology, food choices, diet plans):
 - Obesity,
 - Leanness and underweight;
 - Coronary heart disease:
 - Dyslipidemia,
 - Hypertension,
 - Ischemic heart disease,
 - Heart failure;
 - Fevers and infections;
 - Diabetes mellitus;
- 4. Diseases of respiratory system:
 - Cystic fibrosis,
 - Asthma;
- 5. Rheumatic diseases:
 - Rheumatoid arthritis,
 - Osteoarthritis & gout;

6. Inborn errors of metabolism:

- Phenylketonuria,
- Maple syrup urine disease,
- Galactosemia,
- glycogen storage disease
- Renal diseases;
- Burn
- Surgical conditions;
- Bacterial overgrowth;
- 7. Infections;
 - AIDS;
 - Food allergy
- 8. Protein energy malnutrition;
 - Micronutrient deficiencies;
- 9. Policy principles for promotion of healthy diets;
 - Incorporating nutrition objectives into development policies;
 - Strategic actions and for promoting healthy diets;
 - Drawing up of nutrition education programs;
 - Role of specialist in dietetics and diseases.

Content-Practical:

1. Planning of modified diet:

- Consistent carbohydrate diet,
- Moderate carbohydrate diet;

2. Modified proteins diet:

- High protein diet,
- Restricted protein diet;

3. Modified fats diet:

- Restricted fats diet;
- Modified micronutrients diet;
- Controlled sodium, potassium and phosphorus diet;
- Dietary management in various health disorders;
- Hospital visits and nutrition camps.

Teaching-Learning Strategies:

Teaching will be a combination of class lectures, class discussions, and group work. Short videos/films will be shown on occasion.

Assignments:

The sessional work will be a combination of written assignments, class quizzes, presentation, and class participation/attendance.

Assessments and Examination:

Sessional Work: 25 marks Midterm Exam: 35 marks Final Exam: 40 marks

Recommended Readings:

- Mahan, L.K., Escott-Stump, S. & Raymond, J.L. (2012). Krause's Food, Nutrition & Diet Therapy, (13th ed.) Elsevier Saunders, St. Louis, Missouri, USA.
- Mudambi, S.R. & Rajagopal, M.V. (2007). Fundamentals of Foods, Nutrition
 & Diet Therapy, 5thed. New Age International Pvt. Ltd. Publishers, New Delhi.
- Punekar, M. & D'Souza, J. (2010). Handbook of Applied Nutrition, Dietotherapy and Diet Management. SBS Publishers & Distributors Pvt. Ltd., New Delhi.
- 4. Rawat, S. (2015). Applied Nutrition. Random Publication, New Delhi.
- Schlenker, E. & Gilbert, J.A. (2015). Williams' Essentials of Nutrition and Diet Therapy, (11th ed.) Elsevier/Mosby Inc., Louis, Missouri.
- 4. 6.Singh, J. (2008). Handbook of Nutrition and Dietetics. Lotus Press, India.