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B.Sc. FOOD & NUTRITION KAKATIYA UNIVERSITY – WARANGAL - TELANGANA

Under Graduate Courses (Under CBCS 2020-21 onwards) **B. Sc. IInd YEAR - SEMESTER - IV**

PAPER-IV: DIET IN DISEASE (Theory)

Theory: 4 hrs/week; Credits: 4 Marks: 100 (Internal-20, External-80) Practical:

3 hrs/week; Credits: 1 Marks: 25

UNIT I: ENERGY METABOLISM

- 1.1 Energy metabolism- Measurement of energy by direct and indirect calorimetry, determination of energy value of food by bomb calorimeter and benedicts oxy calorimeter
- 1.2 Energy balance, Factors affecting TEE BMR, Physical Activity, SDA
- 1.3 Underweight- Definition, Causes, Principles of the Diet, Dietary Modifications, Foods to Be Included and Foods to be Avoided
- 1.4 Obesity Definition, Causes, Assessment (BMI, Body Weight, Brokas Index), Type (Grade I, II, II, Apple and Pear shape) Complications, Principles of the Diet Dietary Modifications, Foods To Be Included And Foods To Be Avoided

UNIT II: DIET IN DIABETES AND CARDIO VASCULAR DISEASES

- 2.1 Diabetes Definition, Causes, Types, T2DM- risk factors, Signs, Symptoms, Complications and Dietary Modifications
- 2.2 T1DM- risk factors, Signs, Symptoms, Complications and Dietary Modifications
- 2.3 Hypertension- Definition, Causes, Types, risk factors, Signs, Symptoms, Complications and Dietary Modifications
- 2.4 Atherosclerosis Definition, Causes, risk factors, Signs, Symptoms, Complications and Dietary Modifications

UNIT III: DIET IN GASTRO – INTESTINAL DISEASES

- 3.1 Diarrhoea Definition, causes, types, symptoms, complications and dietary Modifications, foods to be included and foods to be avoided
- 3.2 Constipation Definition, causes, types, symptoms, complications and dietary modifications, foods to be included and foods to be avoided
- 3.3 Peptic Ulcer Definition, causes, types, symptoms, complications and dietary modifications, foods to be included and foods to be avoided

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3.4 Celiac disease, tropical sprue, irritable bowel syndrome, inflammatory bowel disease-Definition, Symptoms

UNIT IV: DIET IN LIVER AND PANCREATIC DISEASES

- 4.1 Hepatitis Definition, Causes, Types, Symptoms, Complications and Dietary Modifications, Foods to Be Included and Foods to Be Avoided
- 4.2 Cirrhosis Definition, Causes, Symptoms, Complications and Dietary Modifications, Foods to Be Included and Foods to Be Avoided
- 4.3 Gall stones Definition, Causes, Symptoms, Complications and Dietary Modifications, Foods to Be Included and Foods to Be Avoided
- 4.4 Pancreatitis- Definition, Causes, Types, Symptoms, Complications and Dietary Modifications, Foods to Be Included and Foods to Be Avoided

Books Recommended:

Text Books:

❖ Srilakshmi B – Dietetics, 5th edition, New Age International publishers, 2002.

Reference Books

- ❖ Antia F.P Clinical Dietetics and Nutrition, Oxford University Press, New Delhi, 2003.
- ❖ Mahtab S. Bamji, N Prahlad Rao, Vinodini Reddy -Text book of Human Nutrition, 2nd edition, Oxford and IBH publishing Co. Pvt. Ltd, 2004.
- ❖ Swaminathan, M Essentials of Food and Nutrition, Vol 2, Bangalore Printing and Publishers Co Ltd, Bangalore, 1985.

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Under Graduate Courses (Under CBCS 2020-21 onwards) **B. Sc. IInd YEAR - SEMESTER - IV**

PAPER-IV: DIET IN DISEASE (Practical)

- I. Planning, Calculation and Preparation of Diets for
 - 1. Underweight
 - 2. Obesity
- II. Planning, Calculation and Preparation of Diets for
 - 3. Diabetes- T2DM
 - 4. Hypertension
- III. Planning, Calculation and Preparation of Diets for gastro intestinal diseases
 - 5. Diarrhea
 - 6. Constipation
 - 7. Peptic Ulcer
- IV Planning, Calculation and Preparation of Diets for Liver diseases
 - 8. Hepatitis
 - 9. Cirrhosis
 - 10. Gall stones

Books Recommended

- ❖ Srilakshmi B Dietetics, 5th edition, New Age International publishers, 2002.
- ❖ Longvah T., Ananthan R., Bhaskarachary K. and Venkaiah K. Indian Food Composition Table, National Institute of Nutrition, Tarnaka, 2017.
- ❖ Indian Dietetic Association, Clinical Dietetics Manual 2nd Edition