ST.JOSEPH'S COLLEGE FOR WOMEN (AUTONOMOUS), VISAKHAPATNAM III SEMESTER HOMESCIENCE TIME: 4HRS/WEEK HS 3203(3)FAMILY&COMMUNITY NUTRITION (Th) MARKS:100 w.e.f. 2020 –2021("20AH") SYLLABUS

Learning objectives:

- Understanding the nutritional problems and nutrition requirements of the community.
- Acquiring knowledge about RDA, food groups, steps in planning a diet.
- Planning of nutrition diets according to RDA for different age groups-Infancy to old age and physiological conditions -Pregnancy and lactation
- Different methods of assessing nutritional status –Anthropometry, biochemical, clinical examination and diet survey etc.,
- Preparation of nutritious diets for different age groups meeting the RDA.
- ABCD-techniques for nutritional status assessment.
- Planning programs to combat nutritional problems in community.

Learning Outcomes of the course: The students will be able to:

- Calculations of nutritive values of the diets and RDA for different age groups.
- Nutrition education techniques.
- Assessment of nutritional status using ABCD techniques.
- Planning & Preparation of diets for different age groups

THEORY

UNIT–I: MEAL PLANNING – NUTRITION DURING ADULTHOOD, PREGNANCY AND LACTATION

- Principles of meal Planning, Balanced Diet. Dietary guidelines for Indians
- Nutrition for Adults Reference man and Reference women Nutritional requirements for adult man and woman of different physical activities (Sedentary, Moderate and Heavy work).
- Pregnancy Nutritional and Food requirements, Physiological changes and complications.
- Lactation Physiology, Nutritional and Food requirements

UNIT – II: NUTRITION DURING CHILDHOOD

- Infancy Nutritional requirements Breast feeding and its advantages; Artificial/bottle feeding; Weaning Practices, Supplementary foods.
- Early childhood Nutritional requirements RDA, Inculcating healthy eating habits among pre-schoolers
- Late childhood Nutritional requirements RDA, Food habits, Importance of breakfast and packed lunch.
- Traditional foods and Junk foods Impact on health

UNIT – III: NUTRITION DURING ADOLESCENCE AND OLD AGE

- Adolescence-Nutritional requirements –RDA, Food habits, Nutritional problems and Eating Disorders- Anorexia and Bulimia.
- **Geriatric Nutrition** Physiological changes in elderly, Factors affecting food intake, Nutrient needs and Requirements, Nutrition related problems and their diet management

UNIT-IV: NUTRITIONAL STATUS ASSESSMENT

- Assessment of the Nutritional Status of the Community Need and objectives
- Direct methods Anthropometry, Biochemical Analysis, Clinical Examination, Diet Surveys, Functional assessment and Biophysical or Radiological examination.

• Indirect methods – Ecological factors and Vital Health Statistics

UNIT -V NUTRITIONAL PROBLEMS, PROGRAMS AND EDUCATION

- Nutrition problems prevalent in India Under nutrition PEM and deficiencies of Vitamin A, Iron and Iodine; Over nutrition
- Community Nutrition Programmes to combat malnutrition Supplementary Feeding Programmes – ICDS, School lunch programme; Prophylactic Programmes to prevent Vitamin A, Iron, Iodine deficiencies
- Role of National and International Organizations in combating malnutrition NIN, CFTRI, NNMB, WHO, FAO, CARE and UNICEF
- Nutrition Education Definition, methods used in nutrition education to improve nutritional and health status of people.

REFERENCES

- 1. Bamji MS, Krishnaswamy K, BrahmamGNV (2016). "Textbook of Human Nutrition", 4th edition, Oxford and IBH Publishing Co. Pvt. Ltd.
- 2. Dietary Guidelines for Indians A Manual (2011), published by NIN.
- 3. Food Composition Tables, (2017, published by NIN.
- 4. Prabha Bisht, Community Nutrition in India, Star Publications, Agra.
- 5. Raina U, Kashyap S, Narula V, Thomas S, Suvira, Vir S, Chopra S (2010). Basic Food Preparation: A Complete Manual, Fourth Edition. Orient Black Swan Ltd.
- RavinderChada and PulkitMathur, (2015). Nutrition A Life Cycle Approach, 1st edition, Orient Black Swan.
- Sara Abraham (2016). Nutrition through life cycle, 1st edition, New Age International Publishers.
- 8. Srilakahsmi, B. (2018). Food Science, 7th edition, New Age International (P) Ltd.
- 9. Srilakahsmi, B. (2018). Nutrition Science, 6th edition, New Age International (P) Ltd.
- 10. Srilakahsmi, B. (2019). Dietetics, 8th edition, New Age International (P) Ltd.
- 11. Suryatapa Das (2018). Textbook of Community Nutrition" 3rd edition, Academic Publishers.
- Swaminadhan, M. (1985). Essentials of Food and Nutrition Volume I and II ", 2nd edition, The Bangalore Printing and Publishing Co. Ltd., Bangalore

** ** **