ST.JOSEPH'S COLLEGE FOR WOMEN (AUTONOMOUS), VISAKHAPATNAM

Time: 3Hrs/Week

Max. Marks: 100

V SEMESTER HOMESCIENCE
HS-E3-5103(3) FOOD QUALITY CONTROL AND ASSURANCE

w.e.f. 20AH Batch SYLLABUS

OBJECTIVES: After successful completion of the course, the students will be able to:

- Describe and introduce the principles and methods of food quality control and assurance
- Understand the methods of quality control and assurance in foods.
- Apply and use the principles and selection of panelists for sensory evaluation and quality management system.

COURSE OUTCOMES:

- Identify and examine the methods for measuring food attributes.
- Understand and estimate the principles of sensory evaluation of food products.
- Acquire skills in selection and training of sensory panel.
- UNIT-I: Food Quality Definition- Food Quality and its need in food industry Food Quality control objectives- Importance Functions of quality control Stages of quality control in Food industry- Methods of quality control Quality attributes- Classification of quality attributes.
- **UNIT-II:** Food quality assurance: Theoretical and practical considerations, description of different systems: GAP, GMP, TQM, ISO, Indian Food Standards Voluntary and Obligatory Standards (PFA, FPO, MMPO, BIS, AGMARK etc) Codex Alimentations, WHO, Worldwide Food Safety issues. Fair Average Quality (FAQ) specification for food grains, ISO 9000series.
- **UNIT-III:** Sensory evaluation: Requirements and methods –Sensory parameters: Color, flavor, texture, Taste, aroma, general and overall acceptability –Subjective and objective test of sensory parameters (Differential test, Rating test, Sensory threshold test)
- **UNIT-IV:** Quality assessment of Food materials i.e. Cereals, Pulses, Fruits, Vegetables products selection method, Food Standards- Food packaging and labeling methods Recent trends
- **UNIT-V:** Quality assessment of Food materials i.e. Meat, Poultry, Egg, Processed food products-selection method, Food Standards- Food packaging and labeling methods Recent trends

REFERENCE:

- 1. Manay, S and shadaksharamasamy, Food Facts and principles, New age International.(p) publishers, New Delhi.
- 2. Srilakshmi, B., 2002, Food Science, 2nd edition, New Age International private limited. New Delhi.
- 3. Siva sankar, B. (2013) Food processing and preservation 2nd edition, Prentice Hall, Pvt, Ltd.
- 4. Swaminadhan, M., Food Science, Chemistry and Experimental foods, Bappco publishers, Banglore, 2004
- 5. Ranganna S, Hand book of Analysis and Quality-Fruits and Vegetable products, Tata McGraw Hill, New Delhi, 1986.

CO-CURRICULAR ACTIVITIES Mandatory

- 1. Visit to food processing industries to understand the principles and methods of quality control and assurance in foods.
- 2. Visit to food testing lab or any agency of food standards.

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