



**MANGALORE UNIVERSITY**  
**DEPARTMENT OF BIOSCIENCES**  
**MSc Food Science & Nutrition**

**FNE 463 FOOD SAFETY**

**39 Hr (13× 3 units)**

**Course outcome:**

- Describe the importance of quality control system in food plants.
- Classify the different types of food labeling and label claims
- Write down the different food laws including national and international laws.
- Identify common testing methodologies for food adulterants and toxicants

**Unit I:** Food Quality: importance and functions of quality control. Methods of quality, assessment of food materials-fruits, vegetables, cereals, dairy products, meat, poultry, egg and processed food products. Food adulteration and food safety. HACCP, Sensory evaluation-introduction, panelscreening,

**Unit II:** Sampling and specification of raw materials and finished products, Concept of Codex Alimentarius/USFDA/ISO 9000 series, rules and regulations for waste disposals. FSSAI and AGMARK

**Unit III:** Food packaging: Definitions, objectives and functions of packaging and packaging materials. Packaging requirements and selection of packaging materials; Types of packaging materials.

**REFERENCES**

- Swaminathan MS. Food Science & Experimental Foods-- Ganesh & Co
- Srilakshmi B. Food Science, New Age International publication
- Frank AP, Modern Processing, Packaging & Distribution System for Food, AVI Van nonst and Reinhold.co