

OPEN ELECTIVES

FNE 463 FOOD SAFETY

39 Hr (13× 3 units)

Course outcome:

At the end of this course the students will gain the knowledge regarding-

- CO 1. The importance of quality control system in food plants.
- CO 2. Different types of food labeling and label claims
- CO 3. Different food laws including national and international laws.
- CO 4. 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, panel screening,

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. 1979. Food Science & Experimental Foods, Ganesh & Co
- Srilakshmi B. 2003. Food Science, New Age International publication
- Frank AP. 1987. Modern Processing, Packaging & Distribution System for Food, AVI Vannanst and Reinhold.co.