

I YEAR - SEMESTER – II
KAKATIYA UNIVERSITY – WARANGAL - TELANGANA
Under Graduate Courses (Under CBCS 2025-26 onwards)
PAPER-II: Food Microbiology, Sanitation and Hygiene

UNIT – I

- Introduction to microbiology and its relevance to everyday life-General morphology of micro-organisms – General characteristics of bacteria, fungi, virus, protozoa, algae.
- Control of micro-organisms, growth curve – Effect of environmental factors on growth of microorganisms-pH, water activity – oxygen availability, temperature & others.
- The relationship of micro-organism to sanitation. Role of microbiology-Environment effects of microbial growth.

UNIT – II

- Effects of micro-organisms on food degradation and food bore illness – Bacteria, Virus, Molds, Yeasts and parasites (food poisoning).
- Other food hazards – chemicals, antibiotics, hormones, metals contamination – poisonous foods.
- Other agents of contamination: Human, domestic animals, vermins, birds.
- Beneficial effect of micro-organisms.

UNIT – III

1. Microbiology of different foods – Spoilage and contamination- Sources, types, effects on the following:
 - a) Cereals & Cereals products.
 - b) Vegetables & Fruits.
 - c) Meat & Meat products.
 - d) Eggs & Poultry.
 - e) Milk & Milk products.

UNIT – IV

- Importance of personal hygiene of food handlers – clothes, illness. Education of food handler in handling and serving food
- Safety in food procurement, storage, handling and preparation – control of spoilage – safety of left over foods.
- Cleaning and sanitization. Products and methods – use of detergents and chemicals Planning and implementation of training programmes for health personnel.
- Relevance of microbiological standards for food safety.


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