ST. JOSEPH'S COLLEGE FOR WOMEN (AUTONOMOUS) VISAKHAPATNAM I SEMESTER PATHWAY - PAPER – IITime:5hrs/week HSC 1602(4) HEALTH, HYGIENE & WELLNESS w.e.fAK 2023-2024 (Admitted batch) Marks:100

Learning objectives:

- To understand and apply the emerging concepts and issues to health, hygiene and sanitation
- To critically understand the present scenario of health hygiene in Indian
- To apply and design hygiene promotion and education programmes for development.

Learning Outcome: On completion of the course a student shall

- Possess an understanding of the concept of good health and means to achieve it.
- Display the ability to identify the morphology, growth and reproductive features of various microorganisms
- Acquire the skills in various sterilization techniques
- Be equipped with skills of balancing stress and anxiety

Theory

UNIT – I: Health & wellness –

- Definition & meaning
- Dimension/ Elements of health and wellness Physical, Social, Emotional, Intellectual, and Spiritual.
- Factors affecting Health and Wellness
- Indicators of health- concept of Mortality, Morbidity, Disability

UNIT - II: Classification & Study of Microorganisms-

- Bacteria- morphology, growth, Nutrition and Reproduction
- Virus- morphology, growth, Nutrition and Reproduction
- Yeasts- morphology, growth, Nutrition and Reproduction
- Algae- morphology, growth, Nutrition and Reproduction
- Mould- morphology, growth, Nutrition and Reproduction
- Beneficial Applications of Microorganisms in Food Industry, Agriculture and other areas.

UNIT – III: Mode of infection

- Infection- sources, mode of transmission.
- Diseases caused by microorganisms-Symptoms, aetiology, mode of transmission of
- a. Bacterial diseases- Typhoid, Tuberculosis, Jaundice, Dysentery;
- b. Viral Diseases: Influenza, Measles, Poliomyelitis, AIDS
- c. **Parasite transmitted diseases** Malaria, Dengue, Filariasis.

UNIT – IV: Prevention & Control

- Control of Micro-organisms Sanitation, Sterilization & Disinfection- Physical and chemical method.
- Immunity- definition & types, Immunization schedule
- Hygiene Meaning and importance of personal hygiene

• Standard precautions to prevent infections

Unit V: Management of Health & Wellness

- Modern lifestyle and hypo-kinetic diseases; prevention and management through Physical exercise
- Stress, anxiety, and depression- Definition and concept
- Role of Yoga, asanas and meditation in maintaining health and wellness.
- Role of sleep-in maintenance of physical and mental health.

References:

- Frazier, W. Candwestnoff, D.C (1997) Food Microbiology, Tata McGraw Hill
- A.S. Rao 2001 Introduction to microbiology, Prentice Hall of India
- Anna k. Joshua, Microbiology, popular book depot, Madras
- R. Ananthanarayanan, C.K.J. Paniker, 2001, Orient Longman Private Limited.
- General Microbiology, 1982, power & Daginawala, Himalaya Publishing House
- Stanier R. Y., Adelberg, E.A. and Ingraham, J.L. (1989) General Microbiology.
- Atlas R. M. (1988) Microbiology, fundamentals and application. Micmillon N. Y.