

MANGALORE ^{Constant} UNIVERSITY DEPARTMENT OF BIOCHEMISTRY MSc BIOCHEMISTRY - III SEMESTER SOFT CORE BCS 504: GENETICS

Total number of lecturehours:42 Total number of credits: 03

Course objectives

1. To study the basic concept on health, hygiene and dimension of health

2. To study the communicable, non-communicable and lifestyle diseases and disorders

3. Drug abuse, oral hygiene, chain of infections and infection control

Course outcome

- The student understands the basic concept of health, hygiene and dimension of health.
- Basics of communicable diseases such as STD, no communicable diseases such as cancer and genetic as well as lifestyle disorders.
- Maintenance of proper mental and oral health, chain of infections.

Unit I

Introduction: WHO definition of health, Health and hygiene, General Health care, Factors affecting health, Indices and evaluation of health, Disease patterns in developed and developing world; Classification of diseases - Endemic, Epidemic, Pandemic; Professional Health hazards. **Disease condition:** Acute disease, Chronic disease, Incurable disease, Terminal disease, Illness, disorders, Syndrome, Pre-disease. **Treatment:** Psychotherapy, <u>medications, surgery, medical devices</u>, and <u>self-care</u>. **Dimensions of Health:** physical, mental, social, spiritual, emotional, vocational, political, cultural, socioeconomic, environmental, philosophical, educational, nutritive, curative and preventive.

Unit II

Communicable diseases - Tuberculosis, Cholera, Typhoid, Conjunctivitis. *Sexually transmitted diseases (STD)*, Information, statistics, and treatment guidelines for *STD*, Prevention: Syphilis, Gonorrhea, AIDS etc. Non-communicable diseases-Malnutrition-Undernutrition, Overnutrition, Nutritional deficiencies; Anemia, Stroke, Rheumatic heart disease, Coronary heart disease, Cancer, blindness, accidents, mental illness, Iodine deficiency, Fluorosis, Epilepsy, Asthma. **Genetic disorders-** Down's syndrome, Klinefelter's syndrome, Turner's syndrome. **Lifestyle disorders-** Obesity, Liver cirrhosis, Diabetes mellitus, Hypertension (Causative agents, symptoms, diagnosis, treatment, prognosis, prevention)

Unit III

Health promotion: preventing drug abuse, Oral health promotion by tobacco control. **Mental Hygiene** and Mental Health.

- Concepts of mental hygiene and mental health Characteristics of mentally healthy person -

14hrs.

4hrs.

14 hrs.

Warning signs of poor mental health - Promotive and preventive mental health – strategies and services - Ego defense mechanisms and implications - Personal and social adjustments - Guidance and Counseling. **Infection control** - Nature of infection - Chain of infection transmission - Defenses against infection transmission

REFERENCES:

- **1.** Modern Nutrition in Health and Disease. 10th Edition by Maurice E.Shils, Moshe Shike, A CatharineRoss.
- **2** Krause'sFoodandNutritionTherapy.12thEditionbyJaniceL.Raymond,L.KathleenMahan,Sy lviaEscottStump.
- 3. Diagnostic Microbiology and Infectious Disease by Mark Holodniy(2016).
- 4. Health and Disease by Sarah Levete
- 5. Health and Disease by AdamHook
- 6. Public Health and Private Wealth by Sarah Hodges & MohanRao

