

CORE COURSE III - BASIC BIOLOGICAL SCIENCE – Part-I
(Applied Anatomy, Physiology and Microbiology)

Objective: The course enables the students to perceive the biological structure and basis of human biology and pathogens and to understand the spectrum of health and disease to evolve health promotion strategies in system management.

Contents:-

Unit-1

An introduction to basic Human anatomy and study of basic vital organs. Anatomy of Heart, Ear, Eye, Brain, Kidney.

Unit-2

Physiology: Introduction to Human physiology & study of various systems – Circulatory system – Central Nervous System – Autonomous Nervous System, Reproductive System, Digestive System, Respiratory System – Sensory organs and their functions – Glands.

Unit-3

Biochemistry of proteins – Fat – Amino acids – Carbo hydrates metabolism – Enzymes – Vitamins – Hormones – Blood chemistry

Unit-4

Microbiology: Introduction to Classification & General Characteristics of various micro organisms - microbiology of food born diseases and food preservation relating.

Unit-5

Introduction to Parasitology – commonly prevailing parasites – diseases – identification and treatment.

References:

Anatomy and Physiology for Nurses.
Physiology : K. Madhavan Kutty
Microbiology : Ananthanarayanan
Phraseology : Chatterjee
Entomology : Roy and Brown