



Tripura University

(A Central University)

Suryamaninagar

West Tripura

Syllabus for
Four Years Undergraduate Programme Subject:
Human Physiology
(As per NEP-2020)

1st Semester (Interdisciplinary)

Revised as on October, 2025

HP-1st Semester IDC
HP-101ID
Total Marks-100 (IA=40+ESE=60)
Credit-4

Unit-I The Unit of life

1. Basic concept of cell>Tissue>Organ>System.
2. Description of cell and its components, functional morphology of cell
3. Ion channels, receptors, carriers, and intercellular communication
4. Human muscular and skeletal system
5. Basic concept of homeostasis and homeostatic control

Unit –II Blood and Cardiovascular system

1. Blood- its components and function
2. Components of circulatory system: heart-structure and function, blood vessels,
3. Cardiac cycle and Cardiac Output
4. Blood Pressure-its regulation, Hypertension

Unit-III- Respiratory System

1. Respiratory System-its components, structure of lungs
2. Mechanism of Respiration
3. Regulation of Respiration
4. Lung Volumes and Capacity

Unit-IV- Neurophysiology-

1. Nerve, Muscle and Neuro-Muscle Physiology
2. Organization of nervous system-receptors and synapse
3. Sensory and motor nervous systems
4. Fundamental physiology of vision
5. Fundamental physiology of audition