Swarnamoyee Jogendranath Mahavidyalaya
At+P.O.: Amdabad, P.S.: Nandigram, Dist.: Purba Medinipur, PIN 721650

DEPARTMENT OF PHYSIOLOGY

COURSE OUTCOMES OF MINOR COURSES IN PHYSIOLOGY
FOR BSc MULTIDISCIPLINARY STUDIES
3-YEAR UNDERGRADUATE PROGRAMME
w.e.f. 2023-24
BASED ON CCFUP 2023 & NEP 2020

MINOR COURSES (MI)

Semester I

MI1 Introduction to Physiology I **4 credits**

MI1T Introduction to Physiology I (Theory) **3 credits**

- Students will understand the concept of various blood corpuscles, their functions and disorders related to their malfunctions.
- Students will arrive at a clear understanding of the immune system (antigen and antibody properties, immune cell, vaccination)
- Students will gain knowledge about the cardiovascular system (anatomy and histology of heart, cardiac cycle, heart sound, cardiac cycle)
- Students will be able to understand the structure and function of lung and the normal physiology of respiration and to know various disorders associated with breathing.

MI1P Introduction to Physiology I (Practical) **1 credit**

- Students will learn to perform the various hematological experiments in laboratory using human blood and to analyze their observations.
- Students will be able to record the blood pressure of human subject using Sphygmomanometer, heart rate, Harvard step test and interpret the observation.

MI2 Introduction to Physiology II **4 credits**

MI2T Introduction to Physiology II (Theory) **3 credits**

- Students will gain knowledge of cell structure and functions.
- Students will be able to understand the concept of enzymes, their action, physiochemical properties and importance of diffusion, adsorption, osmosis, dialysis, ultrafiltration.
- Students will gain knowledge of the properties of carbohydrates, proteins, fats.
- Students will learn extensively about the digestive system, and the concept of metabolism (glycolysis, TCA cycle, fatty acid oxidation)

MI2P Introduction to Physiology II (Practical) **1 credit**

- Students will gain proficiency in using scientific laboratory equipment for fresh tissue experiments (Compound Microscope)
- Students will learn to prepare and study the properties of different buffer solutions.