

# **SYLLABUS**

SEMESTER - I

## **PS 1107 REMEDIAL BIOIOGY**

1. Methods of classification of plants.
2. Plant cell, its structure and non-living inclusions; mitosis and meiosis; different types of plant tissues and their functions.
3. Morphology and histology of root, stem, bark, wood, leaf, flower, fruit and seed. Modification of root and stem.
4. General Survey of Animal Kingdom; Structure and life history of parasites as illustrated by amoeba, entamoeba, trypanosoma, plasmodium, taenia, ascaris, schistosoma, oxyuris, and ancylostoma.
5. General Structure and life history of insects like mosquito, housefly, mites and silkworm.
6. Cell & Tissue: Structure of cell, its components and their functions. Mechanism of transport through the cell membrane.

## **PS 1107P REMEDIAL BIOIOGY (LAB)**

1. Morphology of plant parts indicated in theory.
2. Care, use and type of microscopes.
3. Gross identification of slides of structure and life cycle of lower plants animals mentioned in theory.
4. Morphology of plant parts indicated in theory.
5. Preparation, microscopic examination of stem, root and leaf of monocot and dicot plants.
6. Structure of human parasites and insects mentioned in theory with the help of Specimens.

### **Recommended Books:**

1. Dutta: "Text Book of Botany".
2. Maheshwari: "Text Book of Botany".
3. Truemans: "Elementary Biology".
4. Vidyarathi: "Text Book of Biology".
5. Gupta: "Genetics".