

Proposed Syllabus For S Y B Sc : Zoology

SNDT UNIVERSITY

Zoology Course 3.01

PARASITOLOGY

3 CREDITS

Objectives

- To study the importance of parasitology and epidemiology in our day to day life.
- To understand the life cycle of a parasite and its modes of transmission
- To study various parasitic adaptations

UNIT I: INTRODUCTION TO PARASITOLOGY AND PROTOZOAN (15Lectures)

PARASITOLOGY

- **Introduction, Scope and Branches of Parasitology**
- **Types of Parasites:** Ectoparasites, Endoparasites, Monogenetic, Digenetic, Temporary, Permanent, Extracellular, Intracellular, Facultative, Accidental.
- **Types of hosts:** Definitive, Intermediate, Paratenic, Reservoir.
- Morphology, Life cycle, Mode of infection, Pathogenicity, Control measures, Prophylaxis of Protozoan Parasites – *Entamoeba histolytica*, *Plasmodium vivax*, *Trypanosoma gambiense*, *Leishmania donovani*.

UNIT II: HELMINTH PARASITOLOGY

(15Lectures)

- Morphology, Life cycle, Mode of infection, Pathogenicity, Control measures, Prophylaxis of Helminth Parasites : *Ascaris lumbricoides*, *Taenia solium*, *Wuchereria bancrofti*, *Ancylostoma duodenale*.

UNIT III: EPIDEMIOLOGY

(15 Lectures)

- Introduction and scope of epidemiology
- Dynamics of disease transmission: Reservoir, routes of transmission, incubation.
- Epidemiology of communicable diseases : Diagnosis, Transmission, Prevention , Control measures and Treatment of – Swine flu, Tuberculosis, Malaria - National Malaria Control Program, Rabies, Dengue, Leptospirosis.