

M.Sc.(Ist Year)

Programme: Master of Science Botany

Year / Semester: Ist Year

Paper Code: BOT-501

Paper Name: Biology and Diversity of Viruses, Bacteria and Fungi

BLOCK – I : VIRUSES

- Unit –1 : General Characters and Classification of Viruses
- Unit –2 : Chemistry and Ultrastructure of Viruses
- Unit –3 : Isolation and Purification of Viruses
- Unit –4 : Replication and Transmission of Viruses
- Unit –5 : General Account of Plant, Animal and Human Viral Disease

BLOCK – II : BACTERIA

- Unit –6 : General Account and Classification of Eubacteria, Archaeobacteria and Cyanobacteria
- Unit –7 : Ultra Structure, Nutrition and Reproduction of Bacteria
- Unit –8 : Economic Importance of Bacteria
- Unit –9 : Mycoplasma

BLOCK – III : FUNGI – I

- Unit –10 : General Characters and Classification of Fungi
- Unit –11 : Ultra Structure of Cell and Cell Wall Composition
- Unit –12 : Nutrition in Fungi
- Unit –13 : Reproduction in Fungi
- Unit –14 : Hetrothallism, Hetrokaryosis and Parasexuality

BLOCK – IV: FUNGI – II

- Unit –15 : Mastigomycotina and Zygomycotina
- Unit –16 : Ascomycotina, Basidiomycotina and Deuteromycotina
- Unit –17 : Fungi in Industry
- Unit –18 : Fungi in Agriculture and Forestry
- Unit –19 : Fungi as Human and Animal Parasites (Medical Mycology)
- Unit –20 : Fungi as Food