COURSE-I: MICROBIOLOGY, MYCOLOGY AND PLANT PATHOLOGY (BSCBO-101)

UNIT SCHEDULE

BLOCK-1-GENERAL MICROBIOLOGY

Unit-1- General account, distribution and classification of microorganisms, Major microbes of food, water and soil
Unit-2- Isolation and Cultivation of Microorganisms, Instruments used in Microbiological studies
Unit-3- Structure, Classification, Nutrition, Reproduction and Economic importance of Bacteria
Unit-4- General account, Classification, Structure, Reproduction and Economic importance of Viruses

BLOCK-2- FUNGI AND LICHENS

Unit-5- Characters, Economic importance, Classification and General account of major classes of Fungi
Unit-6- General account, Habit, Structure and Methods of reproduction in Mastigomycotina, Zygomycotina, Ascomycotina
Mastigomycotina- Phytophthora, Zygomycotina- Mucor, Ascomycotina- Saccharomyces, Erysiphe
Unit-7- General account, Habit, Structure and Methods of Reproduction in Basidiomycotina, Deuteromycotina and Mycoplasma
Basidiomycotina- Puccinia and Agaricus, Deuteromycotina – Alternaria, Mycoplasm- General Account
Unit-8- Occurrence, General structure, Nutrition, Reproduction, Economic and Ecological importance of Lichens

BLOCK-3- PLANT PATHOLOGY

Unit-9- Infection, Disease resistance and General Symptoms
Unit-10- Symptoms, Morphology of the causal organism, Diseases cycle and Control measures-I
Mosaic diseases of tobacco, citrus canker, Wart diseases of potato, Late blight of potato
Unit-11- Symptoms, Morphology of the causal organism, Diseases cycle and Control measures-II
Red rot of sugarcane, Loose smut of wheat, Early blight of Potato.
Unit-12- Plant Protection and Control measures of Plant Diseases