

Syllabus of Internship Programme for students of Chemistry in Rathindra Krishi Vigyan Kendra, Palli Siksha Bhavana, Visva Bharati: -

Module 1: Soil Analysis

Theory (8 hours) – Soil formation and classification

Soils physical and chemical properties, soil organic matter and nutrient dynamics, soil sampling, soil analysis and interpretation,

Practical (64 hours)

i) Chemical analysis of soil pH, EC (electrical conductivity), Organic Carbon (oc), available Nitrogen, Copper, Phosphorus, Mn, Fe, Potassium, Zinc, copper, Boron, sulfur

ii) Preparation of soil health card

Module 2: Plant Nutrients and Fertilizers and Its uses:

Theory (8 hours):

Essential plant nutrient types, functions and efficiency deficiency symptoms of macro and micronutrients; fertilizers and soil amendment types, formulation and application in agriculture, integrated plant nutrient system

Practical (16 hours)

Identification and application of different manures, fertilizers, soil amendments nutrient solution etc. in different crops.

Module 3: Pesticides and its use

Theory (8 hours)

i) Classification of Pesticides: name, composition and use of important insecticide, fungicide, herbicide, miticide nematocidal etc.

ii) Impact of Pesticide in Environment

Practical (16 hours)

Identification of different pesticides, formulation and application of different types of pesticide for different crops.