

SYLLABUS :-

Crop Production: Concepts of agronomy; Classification of crops; Techniques of raising field crops, horticultural crops, medicinal and aromatic plants; Cropping system for major agro-ecological regions; seed and seeding, planting density management, organic and inorganic nutrition of crops, water management for higher productivity, management of insects and pests, diseases and weeds; Farm planning and management; Crop growth assessment; Judging crop maturity and harvesting techniques; Organic farming and sustainable agriculture; Greenhouse crop production; Management of dryland agriculture.

Crop Simulation: Models for crop yield assessment; Crop management simulation and yield forecasting; Crop response to climate change; Uncertainty and risk evaluation.