

B. Voc. in Agriculture

Semester-V

Horticultural Entomology

- Classification of animal kingdom up to class; distinguishing characters up to orders in class.
- Insecta; general organization of an insect external morphology with special reference to lepidopteran larvae, coleopteran adults; and honeybee.
- Metamorphosis and moulting; different physiological systems; insect- plant relationship; insect pests of agricultural and horticultural crops, and their stored/processed products, insect vectors of plant diseases identification, biology, nature of damage, and their management tactics.

Water Science and Technology

- Water management: Principles of irrigation.
- Water resources and irrigation development in India, Water and irrigation requirements,
- Concepts and approaches of irrigation scheduling, Methods of irrigation, Measurement of irrigation water, application.
- Distribution and use efficiencies, Conjunctive use of water, Irrigation water quality and its management, water management in major field, crops (rice, wheat, maize, groundnut, sugarcane) Agricultural drainage.

AGROFORESTRY

- Forest- importance, types, classification, ecosystem, biotic and abiotic components,
- Ecological succession and climax, nursery and planting technique, social forestry, farm forestry, urban forestry, community forestry
- Agroforestry – importance and land use systems, forest soils, classification and conservation, watershed management.