

# Course Structure - B.Sc. Horticulture

## Eligibility

Must have passed 10+2 (Science stream) with 50 % (Science stream)

### Semester 1

- Structural Grammar and Spoken English
- Basic Mathematics
- Elementary Statistics & Computer Application
- Soil Fertility and Nutrient Management
- Fundamentals of Geology and Soil Science
- Elementary Plant Biochemistry & Biotechnology
- Principles of Plant Physiology
- Introductory Biology

### Semester 2

- Introductory Economics
- Principles of Genetics and Cytogenetics
- Introductory Microbiology
- Fundamentals of Extension Education
- Agrometeorology
- Medicinal and Aromatic Crops
- Environmental Science
- Fundamentals of Horticulture
- Apiculture

### Semester 3

- Principles of Plant Breeding
- Fundamentals of Entomology & Nematology
- Fundamentals of Plant Pathology
- Tropical and Subtropical Fruits
- Weed Management in Horticultural Crops
- Tropical and Subtropical Vegetables
- Orchard Management
- Introductory Agroforestry
- Propagation and Nursery Management

### Semester 4

- Spices and Condiments
- Temperate Fruits
- Ornamental Horticulture
- Water Management in Horticultural Crops
- Growth and Development of Horticultural Crops
- Plantation Crops
- Organic Farming
- Breeding of Fruits and Plantation Crops
- Introduction to Major Field Crops

## **Semester 5**

- Temperate Vegetables
- Principles of Landscape Gardening
- Mushroom Culture
- Fundamentals of Food Technology
- Farm Power and Machinery
- Diseases of Fruit, Plantation, Medicinal and Aromatic Crops
- Insect Pests of Fruit, Plantation, Medicinal & Aromatic Crops
- Soil and Plant Analysis 9 Communication Skills & Entrepreneurship Development

## **Semester 6**

- Potato and Tuber crops
- Breeding of Vegetable, Tuber and Spice Crops
- Diseases of Vegetable, Ornamentals and Spice Crops
- Post harvest Management of Horticultural Crops
- Seed production of Vegetable, tuber and Spice Crops
- Insect Pests of Vegetable, Ornamental and Spice Crops
- Breeding and Seed Production of Ornamental Plants
- Commercial Floriculture

## **Semester 7**

- Horti-Business Management
- Processing of Horticultural Crops
- Protected Cultivation of High Value Horticultural Crops (EL)
- Nursery Production and Management (EL)