

# GURUKUL EDUCATIONAL AND RESEARCH INSTITUTE

## CERTIFICATE IN HORTICULTURE

### Subject and Syllabus



2022-23

# Syllabus

## CERTIFICATE IN HORTICULTURE

DURATION:- 6 MONTH

### Section A

#### 833 BASICS OF HORTICULTURE

- Importance and scope of horticultural crops
- Current scenario of fruit crops in India

#### 834 FRUIT SCIENCE

- Nutritional Importance of fruits
- Nutritional deficiency and their management .

### Section B

#### 835 VEGETABLE SCIENCE

- Nutritional Importance of Vegetables; nutritional deficiency and their management.
- Cultivation Practices of important Vegetables Crops

#### 836 FLORICULTURE

- Importance and scope of flower cultivation
- Present status of floriculture in India

## **Section A**

### **Unit I - Basics of Horticulture**

- Role of horticulture in diversification of agriculture
- Current scenario of vegetable crops in India

### **Unit II - Fruit Science**

- Soil and climatic requirement of different fruit crops
- Climate zones and areas suitable for fruit cultivation

## **Section B**

### **Unit III - Vegetable Science**

- Soil and climate requirement for different vegetable crops
- Irrigation requirement , manuring and fertilization , weed management

### **Unit IV - Floriculture**

- Soil requirement for Floriculture
- Climate requirement for Floriculture

## **Section A**

## **837 ELEMENTS OF HORTICULTURE**

- Elements of horticulture
- Branches of horticulture

## **Unit II - Fruit Science**

- Importance of healthy fruit plants nursery and their requirement for establishment
- Fruit nutrition garden-layout and importance

### **Section B**

## **Unit III - Vegetable Science**

- Diseases of vegetables and their management.
- Kitchen gardening-suitable crops and varieties

## **Unit IV – 838 Landscaping**

- Different types of landscaping
- Production and management of important trees , shrubs, climbers, pot plants , seasonal flowers and perennials

### **Section A**

## **Unit I - Challenges of Horticulture**

- Major challenges of fruits crops
- Major challenges of vegetables crops

## **Unit II - Fruit Science**

- Cultivation practices of important fruit crops
- soil and climate requirement , varieties, irrigation requirements .
- Manuring and fertilization, weed management , training and pruning ; harvesting and post –harvest handling of fruits

### **Section B**

## **Unit III - Vegetable Science**

- Harvesting and maturity indices
- Post-harvest handling and processing

## **Unit IV - Landscaping**

- Basic Planning and principles of Landscaping
- Vertical Gardening

