

## **Syllabus for certificate course on Floriculture**

### **1. FL-101 : Introduction to floriculture**

**Credit Hours: 3(1+2)**

#### **Theory (70)**

Importance and scope of floriculture in Nagaland, Classification of Ornamental plants, Nursery establishment, care and management, Propagation- sexual and vegetative methods, planting and transplanting, potting and re-potting, Principles and styles of flower arrangement, Flower Drying Techniques and dry flower arrangement.

#### **Practical (30)**

Identification of Ornamental plants, Identification of garden tools and implements, Practice of various propagation techniques, Nursery bed preparation, potting and re-potting, Principles and styles of flower arrangement, drying and preservation of cut and loose flowers.

### **2. FL-102: Landscape Gardening**

**Credit Hours: 3(1+2)**

#### **Theory (70)**

Landscape design, Styles of garden- formal, informal and freestyle gardens. Features of Garden- Garden wall, fencing, steps, hedge plants, edging, lawn, flower beds, shrubbery, borders, water garden. Types of gardening- English, Mughal, Japanese, Persian, Spanish, Italian. Landscaping for specific situations- Institutions, Hospitals, Parks, Roadside, etc. Lawn- establishment and maintenance of lawn.

#### **Practical (30)**

Selection of Ornamental plants for landscape gardening, preparing designs for home gardens, institutional garden, avenue planting, practices in planning and planting of special types of gardens, lawn making, planting herbaceous and shrubbery borders, Visit to parks and botanical gardens.

### **3. FL-103: Commercial floriculture**

**Credit hours: 3(1+2)**

### **Theory (70)**

Scope of cut and loose flowers in national and global trade, global scenario of cut flower production, area under cut flowers and production problems in India. Factor affecting flower production- water and nutrient management, fertigation, weed management, training and pruning, disbudding, physiological disorders and remedies. Integrated Pest Management(IPM) and Integrated Disease Management(IDM). Post Harvest Management of flowers. Cultivation Practices of important flowers- Geranium, Gerbera, Rose, Lilium, Marigold, Orchid, Alstroemeria, Carnation, Chrysanthemum.

### **Practical (30)**

Identification of cut and loose flowers, training and pruning techniques, practices in manuring, Growth Regulator application, pinching, disbudding, staking, harvesting techniques, post harvest handling, Visit to commercial cut flower units and case study.

## **FL-104: Protected Floriculture**

**Credit Hours: 3(1+2)**

### **Theory (70)**

Protected cultivation of flowers, scope and constraints for protected cultivation. Protected structures- green houses, polyhouses, shade houses, rain shelters. Designing and erection of protected structures- low cost/ medium cost/ high cost structures. Location specific designs, suitable flower crops for protected cultivation. Environment control- management and manipulation of temperature, light, humidity, air and CO<sub>2</sub>. Heating and cooling systems, ventilation, naturally ventilated green houses, fan and pad cooled green houses, light regulation. Layout of drip and fertigation system, water and nutrient management, weed management, physiological disorders, IPM and IDM.

### **Practical (30)**

Study of various protected structures, practices in design, layout and erection of different types of structures, practices in environmental control systems, practices in drip and fertigation techniques, special horticultural practices, Visit to commercial green houses.