



# Mary Matha Arts & Science College

## Research Department of Zoology

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<https://marymathacollege.ac.in>

### **Certificate Course Syllabus: Organic Farming- Container Farming (35 hours)**

#### **Week 1: Introduction to Organic Farming (5 hours)**

##### **Session 1 (2 hours):** Overview of Organic Farming

Definition and principles of organic farming

Importance of organic farming in sustainable agriculture

##### **Session 2 (3 hours): Soil Health in Organic Farming**

Understanding soil structure and composition

Soil fertility and the role of organic matter

Composting techniques for organic farming

#### **Week 2: Container Farming Basics (8 hours)**

##### **Session 3 (2 hours):** Introduction to Container Farming

Advantages and challenges of container farming

Types of containers and suitable crops

##### **Session 4 (3 hours): Container Selection and Preparation**

Choosing the right containers

Soil mixtures for container farming

##### **Session 5 (3 hours): Watering and Nutrient Management in Containers**

Proper watering techniques

Organic fertilizers and nutrient management

#### **Week 3: Planting and Crop Management (10 hours)**

##### **Session 6 (2 hours): Selecting Crops for Container Farming**

Choosing crops based on space and climate

Companion planting in containers

##### **Session 7 (3 hours): Seeding and Transplanting**

Seed selection and starting seeds

Transplanting seedlings into containers

### **Session 8 (3 hours): Container Farming Pest and Disease Management**

Identifying common pests and diseases in container farming  
Organic pest control methods

### **Session 9 (2 hours): Pruning and Harvesting Techniques**

Importance of pruning in container farming  
Harvesting practices for optimal yield

### **Week 4: Advanced Container Farming Practices (7 hours)**

#### **Session 10 (2 hours): Vertical Gardening in Containers**

Utilizing vertical space for increased productivity

#### **Session 11 (3 hours): Seasonal Considerations in Container Farming**

Adapting container farming to different seasons  
Overcoming challenges in extreme weather conditions

#### **Session 12 (2 hours): Sustainable Practices in Organic Container Farming**

Implementing eco-friendly practices  
Integrating container farming into a holistic sustainable lifestyle

### **Week 5: Hands-on Practical Session and Certification (5 hours)**

#### **Session 13 (5 hours): Practical Application and Certification**

Guided hands-on container farming experience  
Q&A and troubleshooting session  
Certification ceremony