

As Per NEP 2020

University of Mumbai



Syllabus for Basket of OE/Value- added Certificate Course	
Ad-hoc Board of Studies in Centre for Extra-Mural Studies	
UG Programme	
Semester	I
Title of Paper	Credits
Gardening Fundamentals and Small Scale Farming	4
From the Academic Year	2025-26

Sr. No.	Heading	Particulars
1	Description the course : Including but Not limited to :	Gardening Fundamentals and Small Scale Farming This course is designed for individuals interested in cultivating their own gardens or starting a small-scale farm, whether for personal use, local markets, or sustainability. It covers the foundational principles of gardening and farming, equipping learners with the practical knowledge and skills needed to manage and grow healthy plants. From understanding soil science and selecting the right plants to advanced techniques like irrigation, pest management, and crop rotation, this course provides a comprehensive introduction to the essentials of gardening and small-scale farming. Eligibility: H.S.C (12 th Standard) Pass
2	Vertical :	Skill Enhancement
3	Type :	Theory + Practical
4	Credit:	4 credits (1 credit = 15 Hours for Theory or 30 Hours of Practical work in a semester)
5	Hours Allotted :	90 hours
6	Marks Allotted:	100 Marks

7	Course Objectives: (List some of the course objectives) 1. To provide learners with a comprehensive understanding of gardening practices, plant care, and the operations involved in running and maintaining a nursery. 2. This course is designed to develop the knowledge, skills, and techniques necessary to establish and manage a garden or nursery effectively, with an emphasis on plant health, maintenance, and sustainability. 3. Gain insights into different soil types, soil improvement techniques, and how to select and cultivate plants best suited for your environment 4. Learn eco-friendly gardening and farming practices, such as organic farming, water conservation, and natural pest management 5. Develop hands-on experience with tools and techniques used in gardening, such as planting, pruning, harvesting, and irrigation.
8	Course Outcomes: (List some of the course outcomes) 1. Design and manage their own garden or small farm, choosing the appropriate crops and care techniques based on their local environment. 2. Implement sustainable and eco-friendly practices that reduce environmental impact, save water, and enhance soil health. 3. Grow a variety of crops, from fruits and vegetables to herbs and flowers, for personal use or to sell in local markets. 4. Manage common pests and diseases without relying on harmful chemicals, fostering a healthy and thriving garden or farm. 5. This training will also provide job opportunities and help you start your own business. Those who are already working in this business will get a great opportunity to improve their business through this. Career Readiness
9	Modules:- Per credit One module can be created Module 1: "Essential Gardening: Understanding Soil, Fertilizers and Plant Care for Optimal Growth"

	1. Plants composition and their life cycle. 2. Types of soil ,Soil improvement/correction, Manures and Fertilizers 3. Plant Training and Pruning procedures, Plant propagation methods (Sexual Asexual, cutting, budding, Layering etc.). 4. Medicinal and Aromatic plants, Trees, shrubs, climbers and creepers and their utility. Indoor Plants, Hanging baskets, Orchid and Ferns
	Module 2: "From Seeds to Harvest: Growing Fruits, Vegetables, and Spices with Sustainable Pest Control"
	1. Important Fruits, vegetables, Exotic vegetables and Spices and their cultivations 2. Bulbs and Tuber vegetables etc. 3. Plant diseases and Pests Insect pest management, Weeds and their control 4. Pesticides, fungicides and their use/application.
	Module 3: Module 4: "Water Conservation and Garden Perfection: Harvesting, Composting, and Growing Roses and Bonsai"
	1. Irrigation methods 2. Rain water Harvesting Method 3. Composting and vermicomposting Method 4. Bonsai and Tray garden and Roses and their cultivation
	Module 4 "Sustainable Gardening and Nursery Management: From Polyhouses to Plant Care"
	1. Sustainable Practices in Gardening and Nursery Management, Polyhouse and green house 2. Preparation of soil/ media mixture and filling of Polybags, pots and container for growing Plants 3. Visits to garden/ center/ nursery 4. Tools, implements and their uses.
10	Text Books:
11	Reference Books: 1. Ropvatika Sangopan - A.V Patil 2. Green House Technology- Shishira Kanta Behera, Kishore Chandra Senapati and Fakir Charan Das 3. Bhajipala Lagvad -V G Raul

	4. Production Technology Of Exotic Vegetables - Dr. Arun Naphade, Dr. Ram Kharche	
12	Internal Continuous Assessment: 40%	External, Semester End Examination : 60% Individual Passing in Internal and External Examination
13	Continuous Evaluation through: Quizzes, Class Tests, project, assignment, creative Writing, presentation	Written Exam
14	Format of Question Paper: for the final examination 30 marks objectives (MCQ, match the pair, odd-man out, fill in the blanks) 30 marks short descriptive questions. 20-25% extra options in the question paper (i.e. solve 4 out of 5 or 10 out of 12 etc)	

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Dr. Madhavi Narsalay
Centre for Extra-Mural
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