

SES's L.S.RAHEJA COLLEGE OF ARTS AND COMMERCE
(AUTONOMOUS)



Syllabus of Gardening Operations under NEP 2020 vertical SEC with effect from 2024-25

Department of Commerce and Management (Sub Committee of Geography)

HoD/Sr. Person of the Department: Dr. Anupama Nerurkar

Date of approval by the BoS: 24/04/2024

Approved by the Academic Council: 29/04/2024

Ratified by the General Body on: 06/05/2024



Programme: FYBA			Semester : I		
Course : Gardening Operations (under SEC)			Code: UGBAISEC224		
Academic Year: 2024-2025			Batch: 2024-2027		
Teaching Scheme			Evaluation Scheme		
Lectures	Practical	Tutorials	Credits	Internal Continuous Assessment (ICA) (weightage)	Term End Examinations (TEE) (weightage)
30	Nil	Nil	02	40 %	60 %

Particulars	%
Class tests / Assignment / Project / Quiz etc. (three components- to be conducted at different instants of time)	40
Class test, Quiz/presentation/Viva-Voce (OR)	10+05+05=20 Marks
Assignment/Project, Quiz and presentation/Viva-Voce	10+05+05=20 Marks

Learning Objectives :	<ol style="list-style-type: none"> 1) To understand the basic need of plantation of trees 2) To inculcate Gardening as one of the hobby 3) Principles of Gardening 4) The types of Gardening 5) Uses of Gardens
Learning Outcomes :	<ol style="list-style-type: none"> 1) Student understands the interesting field of gardening 2) Students interest develops in this skill of planting saplings 3) The student gets to know the relation between the environment (soil, water, sunshine) and the plant types 4) Student tries to apply the knowledge gained in classroom for developing kitchen garden 5) Student tries to understand and appreciate the aesthetic value of the garden wherever he visits in future
Pedagogy:	Lectures, PPT presentation, hands on training for identifying the soil type and preparation of pot before planting sapling, equipment's being used, knowing the art of how to handle the sapling with care ,understanding the role of gardener

Detailed Syllabus: (per session plan)

Session Outline for Gardening operations

Each lecture session would be of one hour duration (30 lectures).

Module	Module Content	Module Wise Pedagogy Used	Module Wise Duration
I	<p>Introduction to Gardening :</p> <p>a) Basic information - living and Non-living world b) Necessity to plant trees in the most polluted environment and choosing Gardening as a Hobby c) Species Identification and classification of plants with the help of height and style of development</p> <p>i) Grass ii) Bush iii) Tree iv) Climber v) Creeper etc.</p> <p>d) Definition of Gardening and Basic principles of Gardening e) Basic tools and equipment's required for gardening</p>	<p>Lecture, PPT Presentation, I-naturalist app, Samples of different soils, Hands on training for handling the tools with gardener, Visit to any Garden</p>	15
II	<p>Plant Propagation and Types of gardens:</p> <p>A) Plant Propagation Techniques</p> <ol style="list-style-type: none"> 1. Seed Sowing 2. Vegetative Propagation 3. Division 4. Layering 5. Grafting 6. Budding <p>B) Types of gardens</p> <p>C) Basic plant care and maintenance D) Use of various apps to identify the following.</p> <p>i) Inside /outside temperature ii) To find the height of tree with Abney level iii) To find sound pollution (Sound meter app) iv) To measure humidity (Digital India app) Use of Google Earth pro, KML file for various information</p>	<p>Lecture, Ppt Presentation, Hands on training, Filed visit, Hands on training</p>	15

REFERENCES

BOOKS:

1. Coleman, E. (2018). *The new organic grower: A master's manual of tools and techniques for the home and market gardener*. Chelsea Green Publishing.
2. Bradley, F. M., Ellis, B. W., Phillips, E., & Martin, D. L. (2018). *Rodale's Ultimate Encyclopedia of Organic Gardening: The Indispensable Green Resource for Every Gardener*. Rodale.
3. Lloyd, C. (2014). *The Well-tempered Garden: The Timeless Classic that No Gardener Should be Without*. Hachette UK.
4. Smith, E. C. (2009). *The Vegetable Gardener's Bible*. Storey Publishing.
5. Don, M. (2021). *The Complete Gardener: A Practical, Imaginative Guide to Every Aspect of Gardening*. Dorling Kindersley Ltd.
6. Joshi, D., Nainabasti, A., Awasthi, R. B. P., Banjade, D., Malla, S., & Subedi, B. (2022). A review on soilless cultivation: The hope of urban agriculture. *Archives of Agriculture and Environmental Science*, 7(3), 473-481.

WEBSITES:

1. Royal Horticultural Society (RHS) website
2. The Old Farmer's Almanac website
3. University Extension websites (e.g., University of California Extension, Cornell University Extension)
4. www.soillessgardening-india.com

QUESTION PAPER PATTERN

EXTERNAL EXAM PAPER PATTERN (30 MARKS)

Q.1. Any 2 questions out of 3 on Module 1 (15 marks)

Q.2. Any 2 questions out of 3 on Module 2 (15 marks)

**Rubrics for Evaluation of Internal Continuous
Assessment -20 marks to be implemented under NEP
2020 from Academic Year 2024 -25**

Sr No.	Examination Method	Marks	Marking Scheme	Criteria
1	Class Test	10	As per the student's score	MCQ, Short Answers, Diagrams
2	Assignment/ Project	05	Subject knowledge – 05 marks, Content – 03 marks, Presentation-02 marks	Topic will be given by faculty
3	Presentation	05	Subject knowledge- 03 marks, Presentation skills - 02 marks	Poster Presentation, PPT