

## KITCHEN AND ROOF TOP GARDENING

Semester	Subject Code	Category	Lecture		Theory		P	C
IV	21NBT4A	Non Major Elective - II	2hrs per week	30	2hrs per week	30	0	2

### COURSE OBJECTIVE:

- To grow vegetables in your own premises, using containers and how to make a vegetable garden on rooftop and discusses different techniques through which you can achieve the goal.

**COURSE OUTCOMES:** Upon successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL (K1-K4)
CO1	To remember and understand the fundamental agricultural practice	K1 and K2
CO2	Understand the essentials of materials needed for the gardening	K2
CO3	Apply the methods of roof top garden based on the area or space	K3
CO4	Understand the need of natural composting materials other than fertilizer	K2
CO5	Understand the marketing strategies for the selling of vegetables	K2

**Knowledge Level:** K1- Remember, K2- Understand, K3- Apply, K4-analyze

### MAPPING WITH PROGRAMME OUTCOMES

COS	PO1	PO2	PO3	PO4	PO5	PO6
CO1	S	S	S	M	S	S
CO2	S	S	S	M	M	M
CO3	M	S	S	S	M	M
CO4	M	M	S	M	S	S
CO5	M	M	S	M	S	S

S-Strong, M-Medium, L-Low

## **UNIT I: INTRODUCTION TO GARDENING**

**6 Hours**

Organic gardening, Preparation of soil, selection and sowing of seeds, propagation, manure and fertilizer, watering (irrigation, drip irrigation), weeds, Harvesting, garden designs, typical, terrace,

## **UNIT II: ESSENTIALS OF GARDENING**

**6 Hours**

Tools used for gardening, controlling pest and disease, types of greenhouse, preserving of garden produce, water recycling, waste management

## **UNIT III: INSTALLATION**

**6 Hours**

Types of roof top gardening, procedure for installation of roof top gardening, plant Species selection, Materials for Kitchen gardening.

## **UNIT IV HARVESTING AND MAINTENANCES OF ROOF TOP**

**6 Hours**

Types of harvesting, types and size of garden, benefits of harvesting and beneficial connection in the kitchen garden, maintenance of roof top.

## **UNIT V: MARKETING STRATEGIES**

**6 Hours**

Marketing the products of roof top gardening– Quality control and market research. Marketing techniques – creating the demand by awareness and demonstration, advertisements, packaging and transport, Direct marketing.

**Distribution of Marks:** Theory 80% and Problems 20%

## **TEACHING METHODOLOGY**

- Class room teaching
- Assignments
- Discussions
- Home work
- PPT presentations
- Seminars
- Models/Charts

**TEXT BOOKS:**

S.no.	Authors	Title	Publishers	Year of publication
1.	Steven A. Frowine	Gardening Basics For Dummies	The National Gardening Association	2007
2.	Mary VC	Vermitechnology	MJP Publishers, Chennai, India.	2008
3.	Michele Osborne	Roof Terrace Gardening	Lorenz Book	2013
4.	Annie Novak	The Rooftop growing guide	Paperback	2016
5.	Denise Lefrak Calicchio	Rooftop Gardens	Paperback	2011

**REFERENCE BOOKS:**

S.no.	Authors	Title	Publishers	Year of publication
1.	Edward C. Smith	The Vegetable Gardener's Bible	Storey Publishing, LLC	2009
2	Annie Novak	The rooftop Growing guide	Ten speed Press	2016
3.	Denise Lefrak Calicchio	The rooftop Gardens	Paperback	2011
4.	Francisco Di Blasi	Rooftop Gardens	Kindle Edition	2019
5.	Theodore H. Osmundson	Rooftop Gardens, History, Design, and Construction	W. W. Norton & Company	1999

**WEB SOURCES:**

1. [http://agritech.tnau.ac.in/horticulture/horti\\_Landscaping\\_roofgarden.html](http://agritech.tnau.ac.in/horticulture/horti_Landscaping_roofgarden.html)
2. <https://www.hgtv.com/outdoors/gardens/garden-styles-and-types/grow-a-rooftop-garden>
3. <https://scroll.in/magazine/890669/as-indian-cities-grow-congested-the-only-space-left-for-gardens-is-up-on-rooftops>
4. <https://www.abebbooks.com/book-search/isbn/0393730123>
5. <https://www.thespruce.com/urban-rooftop-gardens>
6. <https://www.gardendesign.com/rooftop>

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