

S. P. Mandali's
Ramnarain Ruia Autonomous College
(Affiliated to University of Mumbai)



Syllabus for

GENERIC ELECTIVE (for BA students)

(As per the guidelines of National Education Policy 2020
Academic year 2023-24)

(Choice based Credit System)

COURSE OUTLINE
GENERIC ELECTIVE

Course Code: RUSGEBOT.E111

Course Title: Urban Gardening

Academic year 2023-24

Course Code	Unit	Title	Credits/Hours
RUSGEBOT.E111		URBAN GARDENING	2Cr/ 30hrs
	I	General concepts of plant growth	15 hrs
	II	Indoor Gardening& Commercial Aspects	15hrs

COURSE OUTCOMES:

COURSE OUTCOME	DESCRIPTION
	A student completing this course will be able to:
CO 1	Reconnect themselves with nature
CO 2	Identify right tools required and how to use them for plant propagation.
CO 3	Perform potting, repotting and transplantation of plants, with appropriate compost.
CO 4	Manage effective aftercare of plants.
CO 5	List the common indoor and garden plants
CO 6	Comment on the different indoor gardening methods
CO 7	Develop entrepreneurship activities in urban gardening

DETAILED SYLLABUS

Course Code	Unit	Urban Gardening	Credits/Hours
			2Cr 30 hrs
RUSGEBOT.E111	Unit I	General Concepts of plant growth	15hrs
		<ul style="list-style-type: none"> ➤ Introduction to urban gardening ➤ Types of Plants ➤ Propagation techniques- seed germination, cutting (stem, leaf) ➤ Tonic for plants Nutrients/ fertilizers, watering, climatic conditions ➤ Aftercare of plants ➤ Deficiencies, pest and diseases and their control measures using organic methods and biological control ➤ potting, transplanting ➤ Composting 	
	Unit II	Indoor Gardening & Commercial Aspects	15 hrs
		<ul style="list-style-type: none"> ➤ Interiorscaping (Indoor gardening- Indoor plants), Vertical walls ➤ Hydroponics ➤ Kitchen/ terrace garden, ➤ Kokedama, terrarium. ➤ Places from where to procure material (offline online), Packaging, budgeting and marketing ➤ Entrepreneurial aspects of gardening ➤ Case study 	

References:

References:

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- Christopher E. P. (2005). Introductory Horticulture. Biotech Books, Delhi.
- Kumar N. (2010). Introduction to Horticulture. Oxford & IBH Publ. Co. Pvt.Ltd.
- Manibhushan Rao, K. (2005). Textbook of Horticulture, McMillan Publication,

Second edition

- Singh Jitendra (2011). Basic Horticulture, Kalyani Publishers
- Singh R. S. (2017). Plant Diseases. Oxford & IBH Publ.
- Sudheer, K. P (2018) Entrepreneurship And Skill Development In Horticultural Processing, NIPA, ISBN: 9789386546807
- Singaravel,R., Prasath, V. (2023) Soil Fertility Management Through Bioresource Technology, NIPA, ISBN: 978939576308
- Patil,M. S. Karale, A. R., Badgujar C. D., Adiga J. D. (2022) Essence Of Horticulture (2nd Fully Revised & Enlarged Edition) NIPA, ISBN: 9789386546807
- Gurjar, P. K. S.and Nikhil Parihar (2022) Precise & Protected Cultivation of Horticulture crops, Bluerose Publishers Pvt. Ltd.; First Edition, ISBN-13 : 978-9357042208
- Sindhu, V., Ashok Kumar, B., Eggadi Ramesh (2020) Textbook of Protected Cultivation and Precision Farming for Horticultural Crops Publisher: science technology; 1st Edition 2021 ASIN : B09P46J919.
- Singh, A. K., Chadha , K. L., Patel, V. B. (2011) Horticulture To Horti-Business. Westville Publishing House ISBN-10 : 8185873674, ISBN-13 : 978-8185873671

Marathi books

- उद्यानविद्याशास्त्र (मूलतत्त्वे) (**Fundamentals of Horticulture**) 2019 (Marathi Edition) Kindle Edition available Marathi Edition by प्रा. चंद्रकांत रा. अकोलकर (Author) Nirali Prakashan ASIN : B07NDTCHRX
- फलोत्पादनशास्त्र (**FRUIT PRODUCTION**) 2019. Kindle Edition Marathi Edition by प्रा. चंद्रकांत रा. अकोलकर (Author) Format: Kindle Edition available. Nirali Prakashan ASIN : B07NDV1B7X
- भाजीपाला उत्पादन (**Vegetable Production**) 2019. Kindle Edition Marathi Edition by प्रा. चंद्रकांत रा. अकोलकर (Author) Format: Kindle Edition available. Nirali Prakashan ASIN : B07NDTDCJK
- रोपवाटिका व्यवस्थापन(**Nursery Management**) 2019 Kindle Edition, Marathi Edition by प्रा. चंद्रकांत रा. अकोलकर Nirali Prakashan (Author) ASIN : B07NDTZGSC
- काढणीपश्चात तंत्रज्ञान 2019 (**Post harvest technology**) Kindle Edition Marathi Edition by प्रा. चंद्रकांत रा. अकोलकर (Author) Format: Kindle Edition available. Nirali Prakashan ASIN : B07NDTZPY6
- फुलबागशास्त्र आणि प्रांगणउद्यान (**Floriculture and Landscaping**) 2019 Kindle Edition Marathi Edition by प्रा. चंद्रकांत रा. अकोलकर (Author) Format: Kindle Edition available. Nirali Prakashan ASIN : B07NDV9M3S
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- आपली परसबाग किचन गार्डन डॉ. सीमा मराठे Sathe Prakashan
- औषधी वनस्पतींची लागवड करा ! - **Cultivate Herbs !** (Marathi) 2016 by [VINAY NEELKANTH BHAVE](#) Publisher : Sanatan Sanstha ISBN: 9789384461928

- **Adarsha Gharbag** by Dr Madhav Nagare Continental Prakashan
- Gharelu Bagwani Kaise Kare Hardcover – 1 January 2017 Hindi Edition by [Jai Shankar Mishra](#) (Author) Aavishkar Publishers, Distributors, Jaipur; First Edition (1 January 2017) ISBN-10 : 9788179105566, ISBN-13 : 978-8179105566
- SAMPURN BAGWANI [Hardcover] Hari Vilas Verma Hardcover – 1 January 2013 Hindi Edition by [Hari Vilas Verma / हरि विलास वर्मा](#) (Author) Book World Publisher ASIN : B08QZHGKQ
- Sendriya Sheti: Manake ani Pramanikaran (Marathi) Paperback – 1 January 2017 Marathi Edition by [Dr. Prashant Naikwadi](#) (Author) Sakal Prakashan ISBN-13: 978-9386204271
- Sendriya Sheti, Gandul Sheti, Shasvat Sheti. Paperback – 1 January 2017 Marathi Edition by [Jagannath Shinde](#) (Author) Godavari publication ASIN: B08HWK4KZY

Modality of Assessment GE (2 credit course Theory)

A) Internal Assessment- 40%- 20 Marks

Sr No	Evaluation type	Marks
1	Class Test	20
	TOTAL	20

B) External Examination (Semester End)- 60%- 30 Marks

Semester End Theory Examination:

1. Duration – The duration for these examinations shall be of **one hour**.
2. Theory question paper pattern:

Paper Pattern:

Question	Options	Marks	Questions Based on
Q.1	Attempt ANY 3 out of 4	15	Unit I
Q.2	Attempt ANY 3 out of 4	15	Unit II
	TOTAL	30	

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