

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



Syllabus for
VOCATIONAL SKILL COURSE

(As per the guidelines of National Education Policy 2020
Academic year 2024-25)

(Choice based Credit System)

COURSE OUTLINE

VOCATIONAL SKILL COURSE

Course Code : RUSVSCBOTPE111

Course Title: Entrepreneurial Botany- Horticulture Industry

Academic year 2024-25

SEMESTER	COURSE CODE/ Unit	COURSE TITLE	CREDITS
II	RUSVSCBOTPE111	Entrepreneurial Botany- Horticulture Industry	02

COURSE OUTCOMES:

COURSE OUTCOME	DESCRIPTION
	A student completing this course will be able to:
CO 1	Acquire professional competency in culturing horticultural plants, experiment the procedures in cultivating indoor horticultural plants
CO 2	Identify marketable medicinal plants, describe their morphology, add medicinal knowledge about locally available plants and plant parts in daily use.
CO 3	Examine harvested produce; study current and evolve new technology for processing and storing the horticultural produce.
CO 4	Realize the potential of local flora and its diversity by studying techniques to identify, describe and make digital records.
CO 5	Develop entrepreneurship skill and develop problem solving abilities, plan and schedule events

PRACTICALS

RUSVSCBOTPE 111	ENTREPRENEURIAL BOTANY- Horticulture Industry	Credits – 1
1	Plant propagation – Layering, cutting and grafting	
2	Table Top Garden (Terrarium, Dish garden) and Kokedama	
3	Bonsai	
4	Microgreens	
5	Post harvest technology- Preparation of squash and pickle, syrup/ pulp / paste/ ketchup/ soup/ vegetable sauces /jam and jellies	
6	Stem, Leaf , Inflorescence, Flower, Fruit	
7	Identification of common herbs, shrubs and trees	
8	Field Photography	

References:

- Taneja, S. and Gupta, S.L., 2015. Entrepreneurship development, New venture creation, Galgeha publication company, New Delhi. ISSN: 2321-8916.
- Desai, V., 2015. Entrepreneurship development, First edition. Himalaya publication house, Mumbai. ISBN: 9789350973837.
- Khanna, S.S., 2016. Entrepreneurial development. S.Chand company limited, New Delhi. ISBN: 9788121918015.
- Manohar, D., 1989. Entrepreneurship of small scale industries, vol.III. Deep and deep publication, New Delhi. ISSN: 09735925.
- Lal, G., Siddhapa, G.S. and Tandon, G.L., 1988. Preservation of fruits and vegetables. Indian Council of Agricultural Research (ICAR). ISSN: 0101-2061.
- Ranganna, S., 2001. Hand book of analysis and quality control of fruits and vegetable products, Second edition, Tata mcgraw hill, New Delhi. ISBN: 9780074518519.
- Cruses, W.V. and Fellows, P.J., 2000. Commercial fruits and vegetable processing. CRC press, United States. ISBN: 9780849308871
- 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., 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, K.L. Chadha V.B. Patel (2011) Horticulture To Horti-Business. Westville Publishing House ISBN-10 : 8185873674, ISBN-13 : 978-8185873671
- Elhadi Yahia (2019) Postharvest Technology of Perishable Horticultural Commodities 1st Edition Paperback ISBN: 9780128132760 Woodhead Publishing
- Rosemary McCreary (2006) Tabletop Gardens Paperback, Publisher : Storey Books, ISBN-10 : 1580178375, ISBN-13 : 978-1580178372
- Takaaki Kagawa (2017) Kokedama: A step-by-step guide, Publisher : WriteHit.com; 2nd edition ASIN : B01NBU5X1B Kindle Edition available
- Jasmine Richardson (2009) Microgreens: A Guide to Growing Nutrient Packed Greens, Publisher : Gibbs M. Smith Inc; Illustrated edition ISBN-10 : 1423603648, ISBN-13 : 978-1423603641
- Robert Smith (2022) Bonsai Book for beginners, Publisher: Jpinsiders, ISBN-10 : 1778131840, ISBN-13 : 978-1778131844 Kindle Edition available
- Shrikant Ingalhalikar (2022) Leaf Based Identification For Trees Of Sahyadri Forest, Mangrove And Urban Trees Of Western Ghats In South Gujarat, Maharashtra, Goa And North Karnataka (Second Edition) Corolla Publications.
- Rup K. Roy (2015) Ornamental Trees of India Identification, Descriptor and Landscape Use Pointer Publishers ISBN: 9788171328000
- Rajendra D Shinde and Kalpit Ganesh Mhatre (2016) Ethno Medicinal Plants of



Raigad District, Maharashtra, Dattsons Publishers, ISBN: 9788171921232

- Pradeep Sachdeva (2016) A Naturalist's Guide to the Trees & Shrubs of India (Naturalist's Guides) Paperback John Beaufoy Publishing Ltd, ISBN-10: 1909612820, ISBN-13: 9781909612822
- Adrian Davies (2023) Plant Photography Crowood Press ISBN-10: 0719842077, ISBN-13: 978-0719842078
- Sadhu, M.M.,(1989) Plant Propagation, New Age International (P) Limited Publishers, New Delhi, ISBN 8122400655

Modality of Assessment Vocational Skill Course (2 credits)

Practical Examination Pattern: Total Marks - 50

SEMESTER END EXAMINATION	
Laboratory work	40
Journal	4
Practical participation	6
Total marks	50

PRACTICAL JOURNAL

The students are required to present **a duly certified journal** for appearing at the practical examination, failing which they will not be allowed to appear for the examination.

In case of loss of Journal and/ or Report, a Lost Certificate should be obtained from Head/ Co-ordinator / Incharge of the department; failing which the student will not be allowed to appear for the practical examination.

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