

**The Kelkar Education Trust's
V. G. Vaze College of Arts, Science and Commerce
(Autonomous)**

**The Kelkar Education Trust's
V. G. Vaze College of Arts, Science and Commerce (Autonomous) - Affiliated to
University of Mumbai
(Re Accredited By NAAC with Grade A)**

**Revised Syllabus for SYBSc
Based on NEP-2020 Guidelines**

Program: B.Sc.

Course: BOTANY

Semester III

To Be Implemented From

Academic Year 2024-25

S.Y.B.Sc (Botany)

Semester: III

VSC- II

Course Title: Horticulture II

- i. **Name of the program:** : **S. Y. B. Sc Botany**
- ii. **Course code:** :
- iii. **Course title:** : **Horticulture II**
- iv. **Semester wise course content** : **Copy of syllabus enclosed**
- v. **References & additional references** : **Enclosed in syllabus**
- vi **Credit Structure**
- No. of credits per semester** : **02**
- vii. **No. of lectures per unit** : **NA**
- viii. **No. of lectures per week** : **NA**
- ix. **No. of tutorials per week** : **NA**
- x. **No. of practicals per week** : **02**
2. **Scheme of Examination** : **Practical Examination (marks)**
3. **Special notes if any** : **No**
4. **Eligibility, if any for admission** : **As laid down in the college brochure/website**
5. **Fee structure** : **As per college fee structure specifications**
6. **Special ordinances/resolution (if any)** : **No**

Course code:

Credits: 02

Teaching hrs/week	Practicals per week	Credits	Semester End Examination	Total Marks
04	02	02	Practical	100

Course Objectives:

To understand the concept of different types of horticultural practices.

Apply the basic principles and components of gardening.

To acquaint students with gardening types.

Course Outcomes:

After the successful completion of the course, Learners will be able to:

Understand and develop scientific garden management practices.

Learn and use different gardening practices.

Take up horticulture and gardening as a skill for entrepreneurship.

PRACTICALS IN HORTICULTURE II

	Practicals
1.	Study of different gardening tools and implements. Pruning shear For Watering can Hoe Shovel Wheel barrow Mower Trovel Garden glove Boots

2.	Studying the technique of Repotting of Plants.
3.	Preparation of organic compost.
4.	Studying the technique of Kitchen gardening.
5.	Study of five examples of plants for each of the following garden locations : Edges Hedges Arches & Pergolas Lawn Flower beds Avenues
6.	Preparation of garden plans – formal and informal gardens.
7.	Preparation of Bottle garden.
8.	Preparation of Dish garden.
9.	Preparation of Hanging baskets for growing plants.
10.	Preparation of Kokedama.
11.	Visit to a Nursery / flower shows/ garden and exhibitions report writing.

References :

1. Chadha K L (2002). Handbook of Horticulture ICAR
2. Peter K V (2008). (Ed.) Basics of Horticulture New India Publication agency
3. Bose T K., Maiti R G., Duha R S and Das P (1999). Floriculture and Landscaping, Naya Prakash
4. Sudheer K P and Indira V (2007) Post harvest technology of Horticultural crops, New India Publication agencies
5. Nambisan KMP (1992) Design elements of Landscape gardening Oxford and IBH
6. Arora J S (1999). Introduction to ornamental horticulture Kalyani Publishers, Ludhiana.

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Revised Syllabus for S. Y. B. Sc

Based on NEP-2020 Guidelines

Program: B.Sc.

Course: BOTANY

Semester IV

To Be Implemented From

Academic Year 2024-25

S.Y.B.Sc. (Botany)

Semester: IV

SEC- II

Course Title: Florals and Fragrances - II

- i. Name of the program: : S. Y. B. Sc Botany**
- ii. Course code: :**
- iii. Course title: : Florals and Fragrances II**
- iv. Semester wise course content : Copy of syllabus enclosed**
- v. References & additional references : Enclosed in syllabus**
- vi Credit Structure**

- No. of credits per semester : 02**
- vii. No. of lectures per unit : NA**
- viii. No. of lectures per week : NA**
- ix. No. of tutorials per week : NA**
- x. No. of practicals per week : 02**
- 2. Scheme of Examination : Practical Examination (marks)**
- 3. Special notes if any : No**
- 4. Eligibility, if any for admission : As laid down in the college brochure/website**
- 5. Fee structure : As per college fee structure specifications**
- 6. Special ordinances/resolution (if any) : No**

Course code:

Credits: 02

Teaching hrs/week	Practicals per week	Credits	Semester End Examination	Total Marks
04	02	02	Practical	100

Course Objectives: After the successful completion of the course, Learners will able to,

To understand the concept of florals and fragrances.

To implement the use of various plants and their plant parts commercially.

To prepare various commercially important plants by using floral extracts.

Course Outcomes:

The course will help in understanding the importance of aromatic plants and their uses.

The course will help to acquaint the students with various applications of floral fragrances in different formulations.

This course will help in developing entrepreneurial skills among students.

PRACTICALS IN FLORALS AND FRAGRANCES II

Sr. No.	Practical
1.	Study of common fragrant flowers used in India.
2.	Study of floral notes. i. Floral ii. Oriental iii. Fresh iv. Woody
3.	Study of the fragrance wheel. (Michael Edward 1984-2024)

4.	Studying the chemistry of perfumes.
5.	Formulation of a perfume.
6.	Preparation of fragrant soap.
7.	Preparation of air freshener.
8.	Preparation of fragrant dhoop.
9.	Preparation of fragrant wet wipes.
10.	Field/ Industrial/ Institutional visit.

References:

1. **Economic Botany: A comprehensive study by S.L. Kochhar, Cambridge University Press; 5th edition.**
2. **Introduction to Perfumery, 2nd Ed. By Tony Curtis & David Williams.**
3. **Poucher's Perfumes, Cosmetics and Soaps.10th Edition. Kluwer academic publishers.**
4. **College Botany Volume I and II by Das, Dutta and Ganguly.**
5. **Handbook on essential oils. Science, Technology, and Applications. Edited by K. Hüsniü Can Başer, Gerhard Buchbauer CRC Press Taylor & Francis Group.**
6. **Fragrances of the World, Michael Edwards (1984).**