



College of Arts,
Science &
Commerce (Autonomous)

RISE WITH EDUCATION

NAAC REACCREDITED - 'A' GRADE

SIES COLLEGE OF ARTS, SCIENCE AND COMMERCE, (AUTONOMOUS), SION (W),
MUMBAI -400 022


NAAC SSR – CYCLE 4 : 2018-2023

Metric No.7 : 7.1.5: Green Campus Initiatives

Document name	Page numbers
1. Value Added Course	2
2. Reports (2018-19)	4
3. Reports (2019-2020)	5
4. Reports (2020-21)	6
5. Reports (2021-2022)	7
6. Reports (2022-2023)	8

This is to certify that the attached documents have been verified and found to be true.




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DEPARTMENT OF BOTANY

Value Added Course – ‘Vertical Wall Gardening’

- **Title & Date:** The Department of Botany started a value added course on ‘Vertical Wall Gardening’ from 18th June 2019 under RUSA grant.
- **Duration & Target audience:** The course duration was of 15 days. A batch of 35 students of TYBSc Botany – Applied component (Horticulture and Gardening) participated in the course and were not charged any fees.
- **Resource person:** Ms. Ekta Mehta, Consultant, Bhumi Designers was the resource person for the course.
- **Course Objective:** The main course objectives were to make the participants aware of the career opportunities in the field of vertical gardening and to encourage them to set up their own startup or work as a freelancer in the same field.
- **Course modules and schedule:** It is as follows:

Day	Duration	Module No. & Name	Course Contents
Day 1	4 hours	---	<ul style="list-style-type: none"> • Inauguration • Orientation to the students
Day 2	4 hours	I – Introduction to Vertical Wall Garden	<ul style="list-style-type: none"> • Definition, Concept & History • Advantages & Scope • Commercial Applications
Day 3	4 hours	II – Types of Vertical Wall Garden	<ul style="list-style-type: none"> • Residential vertical walls • Commercial vertical walls
Day 4	4 hours	III – Materials required for Vertical Wall Garden	<ul style="list-style-type: none"> • Types of Pots • Types of Modules • Types of soil & Fertilizers
Day 5	4 hours	IV – Types of Plants used in Vertical Wall	<ul style="list-style-type: none"> • Sun loving flowering plants • Sun loving foliage plants • Shade loving flowering plants • Shade loving foliage plants
Day 6 and 7	2 days	---	<ul style="list-style-type: none"> • Field Visits to nurseries, green wall agencies, commercial green walls
Day 8	4 hours	V – Production of Vertical Wall Garden	<ul style="list-style-type: none"> • Framing & Fabrication • Potting & Planting • Durability & Costing
Day 9	4 hours	VI – Maintenance of Vertical Wall Garden	<ul style="list-style-type: none"> • Irrigation • Fertilizer Application • Trimming of Plants
Day 10	4 hours	VII – Careers in Vertical Gardening	<ul style="list-style-type: none"> • Job prospects & Consultancies • Business aspects • Finance and Budgeting
Day 11	4 hours/ day	VIII – Hands on training for building Commercial Green wall in college campus	<ul style="list-style-type: none"> • Planning
Day 12			<ul style="list-style-type: none"> • Budgeting
Day 13			<ul style="list-style-type: none"> • Execution
Day 14			
Day 15	4 hours	---	<ul style="list-style-type: none"> • Written Evaluation
Day 16	2 hours	---	<ul style="list-style-type: none"> • Valedictory function

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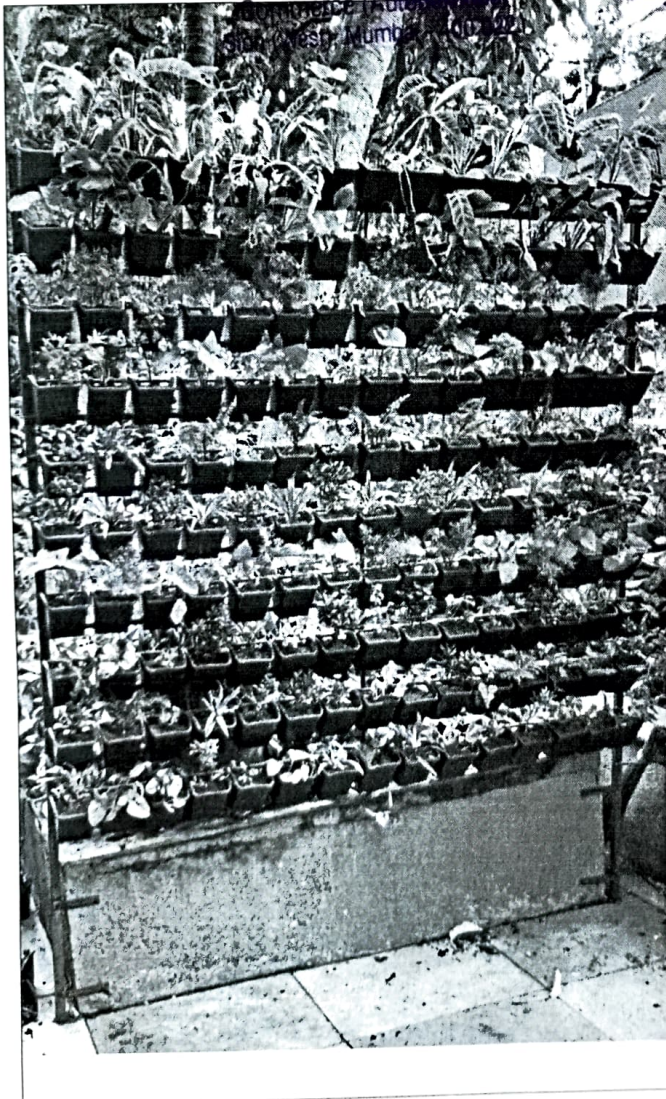


- **Course Details:** The course includes eight modules which are conducted in three phases, viz., Lecture Series, Field visits and Hands on training. The framing of the modules is based on job oriented syllabus. The course materials are provided. The evaluation pattern includes a written test and assessment based on practical sessions. Each student participant will be awarded 2 extra credits for the same.
- **Amount claimed:** There is an estimated budget of Rs. One lakh and forty thousand which will be claimed. It includes lecture series, two field visits, purchase of course materials, hands on trainings and consultancy.
- **Course Outcome:** The participants will learn about various career opportunities in the field of vertical wall gardening by visiting pre-established commercial vertical wall gardens in and around Mumbai. Two commercial vertical wall gardens were constructed in the college campus by the students. The participants will be encouraged to become entrepreneurs or freelancers and provide consultancy in the same field. Students will be encouraged to approach commercial establishments and institutions to offer their services based on the course.

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Dr. Mahayir Gosavi
Head, Department of Botany



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DEPARTMENT OF BOTANY

College Garden Report (2018-2019)

College Garden:

- Developed in 2007
- Maintained by Botany staff & students
- Area: 1250 Sqft
- Includes 150 plant species comprising of Horticultural plants, Medicinal plants, Fernery, Avenue trees, Fruit trees & Plant Nursery.
- Few interesting species like the Neerbrahmi, Bromeliads, Vanilla, Selaginella, etc. adds to its biodiversity.
- It is a healthy practice contributing to Clean & green environment.
- It adds to the beauty of the college campus.
- Students regularly carry out maintenance activities in the herbal garden as a part of internal assessment.

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Dr. Mahavir Gosavi

Head, Department of Botany

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DEPARTMENT OF BOTANY

Herbal Garden & Vertical Wall Garden Report (2019-2020)

Herbal Garden:

- Developed in 2007
- Maintained by Botany staff & students
- Area: 1250 Sqft
- Includes 150 plants species comprising of Horticultural plants, Medicinal plants, Fernery, Avenue trees, Fruit trees & Plant Nursery.
- It is a healthy practice contributing to Clean & green environment.

Vertical Wall Garden:

- Developed in 2019
- Maintained by Botany staff & students
- Location: 1. Near college front gate and 2. Near the wall outside auditorium
- Includes around 700 potted plants comprising of suitable plant varieties like Money plant, Ixora, Roheo, etc.
- Developed under the sponsorship of RUSA grant.
- It is an innovative way of increasing the green cover of the college campus.

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Dr. Mahavir Gosavi

Head, Department of Botany

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DEPARTMENT OF BOTANY

Herbal Garden & Vertical Wall Garden Report

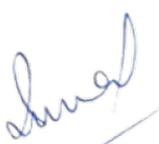
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- Few Exotic species like the Asoka, Neerbrahmi, Bromeliads, Vanilla, Selaginella, Pitcher plant & Ganoderma. adds to its biodiversity.
- It is a healthy practice contributing to Clean & green environment.

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DEPARTMENT OF BOTANY

Environmental Awareness Week Celebration Report

- **Objective:** The motive behind this was to create awareness about environmental issues amongst students.
- **No. of Participants:** 130
- **Methodology/Details:** On Diamond Jubilee of the College, the Department of Botany celebrated 'Environmental awareness week' from 5th June to 12th June 2021. Three competitions were held during environmental awareness week.
 - **Essay writing competition:** The participants were supposed to write essay on anyone topic from the three. 1000 – 1200 words were expected in essay. The essay could be handwritten or in typed format. The participants were supposed to scan their essay, upload it in their google drive and then share the link of the file in the section in the google form for submission. In case of typed format directly upload the file in pdf format in google drive and then share the link. Topics for essay competition were My role in environment conservation, Impact of climate change on Himalayas, Impact of lockdown on environment.
 - **Poster making competition:** The participants were supposed to make a poster using their own creativity. For poster three topics were provided. Out of three any one topic was to be chosen by the participants for the poster. The participants were supposed to scan their poster, upload it in their google drive and then share the link of the file in the section in the google form for submission. The pdf file format was expected. Topics for poster making competition were Ecotourism and Urban forestry, Green energy resources, Mangrove ecosystem in India.
 - **Quiz competition:** The quiz competition was conducted through google form. Participants were supposed to solve 20 MCQ. Each question carried 1 point. Total 20 points were allotted for the quiz competition. Topic for quiz competition was We and our environment.



- **Outcome:** The event sensitized the student participants and volunteers towards their responsibility of protecting environment and utilizing the same in sustainable manner. It gave the opportunity to the participants to interact and share ideas of conserving the nature. The event got overwhelming response all over the Maharashtra. The participants and winners received the e-certificates.

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On the occasion of DIAMOND JUBILEE of the College, the Department of Botany is celebrating ENVIRONMENTAL AWARENESS WEEK from 5th June 2021 to 12th June, 2021 to create awareness about environmental issues amongst the students. Kindly join us to celebrate this environmental awareness week by participating in the following events.

✓ ELIGIBILITY

Students from any stream (UG & PG)

✍️ ESSAY WRITING

1. My role in environment conservation
2. Impact of climate change on Himalayas
3. Impact of lockdown on environment

<https://forms.gle/UAZUVKLMvenk2nAE9>

🌍 QUIZ COMPETITION

We
&
Our Environment

<https://forms.gle/s9V8UQhVUcIcVn839>

📄 POSTER MAKING

1. Ecotourism and Urban Forestry
2. Green Energy Sources
3. Mangrove Ecosystem in India

<https://forms.gle/W7Z8pE3jfvSgWYhs6>

🌍 QUIZ COMPETITION

We
&
Our Environment

<https://forms.gle/s9V8UQhVUcIcVn839>

Contact:
Jeba Reshma: 9167204265
Raghavi: 8104876324



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DEPARTMENT OF BOTANY

Departmental Newsletter – Gulmohar 2021 – 22 Report

- **Objective:** The main objective was to motivate the students to come up with the online newsletter, “Gulmohar” for the department. It was organised under the broad objective of soft skill development and environmental awareness creation amongst the readers and volunteers.
- **No. of Participants in Editorial team: 11**

Name	Position
Raghavi Vasanth K.	Editor
Vrushali Rane	Web Coordinator
Ankita Singh	Web Managers
Rudra Patra	Web Managers
Roopa Nadar	Web Managers
Priya Ambatur	Web Managers
Trishik Jogi	Web Managers
Vedant Khokrale	Web Managers
Sanket Khambe	Web Managers
Jeba Reshma	Layout Coordinator
Chaitrali Deshpande	Layout Designer
Ankita Chauhan	Layout Designer

- **Methodology/Details:** Department of Botany launched Departmental newsletter – “Gulmohar” at online level. Following issues were published under the same:
 - ✓ Gulmohar Newsletter – September 2021
 - ✓ Gulmohar Newsletter – December 2021
 - ✓ Gulmohar Newsletter – April 2022
- **Outcome:** It introduced them to the great world of plant kingdom. It sensitized the student participants and volunteers towards their responsibility of protecting environment. It also helped them to develop various soft skills such as communication, leadership, responsibility, teamwork, flexibility, decisiveness, planning and time management amongst them. It gave the opportunity to the participants to interact and share their ideas.

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DEPARTMENT OF BOTANY

Nakshatra Garden Report (2022-23)

Herbal Garden and Vertical wall garden:

- In the year 2022-23, few additions were made to the college garden such as Pomegranate plant, Rubber tree, etc.
- Herbal garden section was cleaned and re-organised.
- Maintenance activities were carried out by TYBSc Horticulture students.
- Drip irrigation system was set-up in the garden.
- Vertical wall garden was also regularly maintained by students as a part of their internal assessment.
- Drip irrigation was also set-up in the vertical garden.

Nakshatra Garden:

- A collection of plants linked to zodiac signs was introduced in the college campus.
- It is also known as an Astral garden.
- Plants like Calotropis, Fig, Palm, Indian gooseberry, Bael, etc. were planted in pots and distributed around the campus.

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