

**Shri Shivaji Education Society Amravati's**  
**SCIENCE COLLEGE, Congress Nagar, Nagpur**  
**Department of Botany**  
**Organized**  
**Certificate Course: Floriculture and Landscaping**  
**Session 2019-20**

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**REPORT**

Department of Botany organized Certificate Course in “Floriculture and Landscaping” in the session 2019-20. The duration of certificate course was 10 weeks (30 Hrs.) from 2<sup>nd</sup> August to 5<sup>th</sup> October 2019. This course contained per week 2 lectures and 1 practical. Under the certificate course department conducted workshops, guest lecture by experts, nursery techniques, student’s participation in various competitions etc. Eighty students were registered in this course. Through this, students were enriched with the skill of floriculture & landscaping. By this knowledge, students can start their own nurseries, floriculture & consultancy. Students learned about Aesthetics, Environmental benefits, Health and Well-being, Economic importance, Cultural and Social significance etc.

Department organized one day workshop on ‘Flower arrangement and Bouquet making’ on 31<sup>st</sup> August 2019 by Hon’ble Dr. Sunita Sharma, Secretary, Nagpur Garden Club, to sharpen the entrepreneurship skill among the students under Floriculture & Landscaping certificate course. Flower arrangement is an art in which, creativeness and experimentation could be beautifully arranged. Different types of flower arrangement were made by the students.

One day workshop on “Bonsai Technique” was organized by Botany department under the Floriculture & Landscaping Certificate Course on 7<sup>th</sup> September 2019. Hon’ble Prof. Anjali Phaley, LAD College, Nagpur demonstrated the technique of Bonsai. It is a Japanese art using miniature trees grow in container. It is used in ornamental purposes. Student were performed the technique in which replica of big trees were planted in a small pot. They potted mango, Banyan, Orange, Ficus sp., Chiku, Fig, Palm trees etc. Bonsai technique is useful for students in future if they want to decorate their homes & it’s a point of attraction for others also. Students can start their own entrepreneurship.

Guest lecture was organized on 28<sup>th</sup> September 2019 on the topic ‘Landscape and its technique’ by expert Hon’ble Mr. Amit Pophali, Home Agro, Nagpur as a part of curriculum of the course. He explained the importance of landscaping in industries, institutions, apartments etc. Students learned about the different types of landscaping, preparation of landscaping, selection of plants, designs of landscaping etc. during the power point presentation.

Hon'ble Prof. M.P. Dhore, Principle appreciated the efforts and interest shown by the student participants. Dr.Mrs.R.H.Mahakhode, coordinator of this Add-on course has encouraged & given valuable guidance. Dr.R.N.Deshmukh, Head of Department said that through this, students were enriched with the skill of floriculture & landscaping. By this knowledge, students can start their own nurseries, floriculture & consultancy. Dr.Mrs.P.S.Tiwari and Dr.Mrs.S.D.Puranik were supported to making this program successfully.

The certificate course was completed by taking theory and practical examination of the students. Question paper was of 80 Marks and it contains 40 objective type questions and each carries 2 marks. Students were evaluated on the basis of hands-on training on bouquet making, flower arrangement, bonsai technique, participation in various competitions and visitfor Practical examination which carries 20 marks. Certificates were distributed after the successful completion of the certificate course to the students.

*R.H. Mahakhode*

Dr. Rupali H. Mahakhode  
Coordinator  
Floriculture and Landscaping

**Certificate Course: Floriculture and Landscaping**  
**Workshops on**  
**Flower arrangement and Bouquet making, Floral Carpet, Bonsai Technique,**  
**Landscaping and Nursery Techniques**



## Certificate Course: Floriculture and Landscaping

Student actively Participated in various competitions (Floral carpet, Landscaping, Flower arrangement)

Students visited to exhibition and gardens



*Mahakhode*

Dr. Rupali H. Mahakhode  
Coordinator  
Floriculture and Landscaping

To,  
The Principal  
SSES Amt's Science College,  
Congress Nagar, Nagpur-12

Subject: For permission to conduct the add on courses in the Department of Botany during 2019-2020

Respected Sir,

This is to request you that, the teachers of our Botany department have prepared the syllabus and modules of the 30 hours certificate courses for the session 2019-2020.

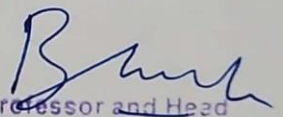
The details of the course module, syllabus and time table is submitted here with.

Hence please permit to run the add on courses and oblige me.

Thanking you

Yours sincerely

Date:- 02/07/2019

  
Professor and Head  
Department of Botany,  
SSES Amt's Science College,  
Congress Nagar, Nagpur-12

*Permitted  
as above*



Shri Shivaji Education Society Amravati's  
**SCIENCE COLLEGE**

Congress Nagar, Nagpur - 440012 (M.S.) India.

Accredited with CGPA of 3.51 at 'A+' grade  
A College with Potential for Excellence, Member of APQN  
Recognized centre for higher learning An ISO 21001:2018 Certified Institution, A Mentor  
College under UGC Paramarsh Scheme



Dr. Panjabrao Deshmukh  
Founder President

**Department of Botany**  
Organizes Certificate Course  
**'Floriculture and Landscaping'**  
2019-2020

**About Course:** This course provides an overview of the principles and practices of floriculture and landscaping, including the cultivation of ornamental plants, floral design, and landscape planning. Students will learn about plant selection, propagation techniques, design principles, and maintenance strategies for both indoor and outdoor spaces.

- **Course Duration:** 30 hours, 10 weeks (per week 2 theory, 1 practical)
- **Date of course:** 2<sup>nd</sup> Aug. to 5<sup>th</sup> Oct. 2019
- **For Registration Contact:**  
Dr. Rupali H. Mahakhode

**Course Highlight:**

- ❖ Conservation of Biodiversity in *In-situ* & *Ex-situ* conservation.
- ❖ To create bioasthetic sense amongst the people which will ultimately control the Environmental pollutions.
- ❖ To create job opportunity, self-employment.
- ❖ Beautiful garden gives peace of mind to the person.
- ❖ Work carried out in collaboration with nurseries, laboratories, Industries, Govt. & non-govt. organizations

Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur.

**Department of Botany**  
**Certificate Course 2019-2020**  
**Floriculture and Landscaping**

Date: 03/07/2019

**Notice**

All the UG students of Botany department are hereby informed that the Department of Botany is conducting Certificate Course on "Floriculture and Landscaping". Department provide opportunities to the students to learn Professional Skill, Professional Knowledge and Employability Skill related to job role.

The duration of certificate course is 10 weeks (30 Hrs.) from 2<sup>nd</sup> August to 5<sup>th</sup> October 2019. This course contain per week 2 lectures and 1 practical. Under the certificate course department conducts workshops, guest lectures by experts, students participation in various competitions etc. Evaluation of the students takes place on the basis of examination of theory and practical. Last Date of Admission is 25<sup>th</sup> July 2019. The classes will be commencing from 2<sup>nd</sup> August 2019.

Interesting students of B.Sc. Part I, Part II & Part III should registered themself in early and contact to the Coordinator Dr. R.H. Mahakhode immediately.



Dr. Rupali H. Mahakhode  
Coordinator  
Floriculture and Landscaping  
Department of Botany

**Dr. Rupali H. Mahakhode**  
Assistant Professor  
Department of Botany  
SSES Amt's Science College  
Congress Nagar, Nagpur-440012.

Shri Shivaji Education Society Amravati's SCIENCE COLLEGE, Congress Nagar, Nagpur.

**DEPARTMENT OF BOTANY  
COURSE MODULE AND SYLLABUS**

**Course Title: Certificate Course in 'Floriculture & Landscaping'**

**Course Coordinator: Dr. Mrs. Rupali H. Mahakhode**

**Session- 2019-2020**

**Course Introduction:**

**Floriculture** is the science of flower cultivation. Examples- Marigold, Rose, Jasmine, gladiolus, tuberose, orchids etc. In India the area under flower cultivation is about 1.70 million ha and the production is 10.03 million tons of loose flower and 1.70 million of cut flowers. The export of flower fetches about Rs. 33 crores. The high potential state for flower production is Karnataka, Andhra Pradesh, Tamilnadu, Maharashtra and West Bengal. These flowers are exported to USA and other country.

**Landscape** is the art of gardening, beautifying a piece of land using garden design, methods and plant materials. It is planning and arrangement of home ground, public area etc. placement of plants according to topography and space. Landscaping has been an indispensable part of architectural design gives aesthetic value to the area where one can relax and feel pleasant.

**Course Objectives:**

1. Conservation of Biodiversity in *In-situ* & *Ex-situ* conservation.
2. To create bioaesthetic sense amongst the people which will ultimately control the Environmental pollutions.
3. To create job opportunity, self-employment.
4. Beautiful garden gives peace of mind to the person.
5. Work carried out in collaboration with nurseries, laboratories, Industries, Govt. & non-govt. organizations.



**Instructional Strategies:** Theory class, Hands on training, Visit etc.

**Evaluation Strategies:** Theory (MCQs) and Practical Examination

**Course Outline:** (Relevance)

- Overview of floriculture industry
- Basic Botany of flowering plants
- Criteria for plant selection
- Propagation techniques
- Nursery management practices
- Sustainable landscaping techniques
- Elements of landscape design
- Environmental considerations in landscape construction
- Principles of floral design
- Techniques for creating floral arrangements
- Seasonal and thematic designs

**Course Outcomes:**

1. To demonstrate an understanding of the basic principles of floriculture and landscaping.
2. To identify and describe common ornamental plants, including their botanical characteristics and cultural requirements.
3. To propagate ornamental plants using various techniques such as seeds, cuttings, and division.
4. To design and create floral arrangements using principles of design and appropriate floral materials.
5. To develop landscape plans that incorporate design principles, plant selection, and hardscape elements.
6. To apply knowledge and identify sustainable practices in floriculture and landscaping and their importance for environmental stewardship.

*Mahalkhoda*  
(Dr. R.H. Mahalkhoda)

**Dr. Rupall H. Mahalkhoda**  
Assistant Professor  
Department of Botany  
SSES Am's Science College  
Congress Nagar, Nagpur-440012.

Shri Shivaji Education Society Amravati's SCIENCE COLLEGE, Congress Nagar, Nagpur.

**DEPARTMENT OF BOTANY**  
**CERTIFICATE COURSE: FLORICULTURE AND LANDSCAPING**  
**Session 2019-2020**

**Duration of course:** Ten weeks (30 Hours):

Per week two theory and one practical

**The Structure of Syllabus and system of evaluation –**

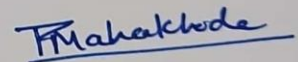
| Course   | Theory Papers and Practical  | Total Marks        |           |
|--|--|--------------------|-----------|
|  |  | Theory             | Practical |
| Certificate Course in Floriculture and Landscaping | Theory paper- Floriculture and Landscaping<br><ul style="list-style-type: none"><li>➤ Theory examination will be of MCQ pattern having 40 questions each with two equal marks.</li></ul> | 80                 | 20        |
|  | <ul style="list-style-type: none"><li>➤ Practical examination will be based on performance evaluation in the laboratory and participation in various competitions.</li></ul>             | Total Marks<br>100 |           |



Internal Quality Assurance Cell  
(IQAC)  
S. S. E. S. A. Science College  
Congress Nagar, Nagpur.



Principal  
S. S. E. S. Amravati's  
Science College, Nagpur.



Dr. Rupali H. Mahakhode  
Coordinator  
Floriculture and Landscaping  
Department of Botany  
Assistant Professor  
Department of Botany  
SSES Amt's Science College  
Congress Nagar, Nagpur-440012.

**SYLLABUS**  
**FLORICULTURE AND LANDSCAPING**  
**Certificate course (10 weeks)**

**Unit-I**

Introduction

Importance and Scope of Floriculture and Landscape Gardening

Methods of Vegetative Propagation-Cutting, Layering, Grafting, Budding, Suckers, Rhizome, Tuber, Runner, Stolon, Bulbs, Corms, Bulbils, Nursery structure.

**Unit-II**

Some Routine Garden Operation- Soil sterilization, Seed sowing, Pricking, Planting and transplanting, Shading, Stopping or pinching, staking, pruning, Clipping or cutting of hedges and edges, Mulching

Flowering Annuals, Herbaceous Perennial, Ornamental Flowering Shrubs, Bougainvillea, Climbers

**Unit-III**

Ornamental Bulbous Plants, Ornamental Foliage Plants, Cacti and Other Succulents

Palms and Cycads, Ornamental Grasses, Ferns.

Cultivation of Plants in pots, Commercial Floriculture, Garlands and other floral ornaments

Flower arrangements-Japanese flower arrangement

Bonsai technique

**Unit-IV**

Landscape- Introduction to Landscape Design Process, Studying elements of landscape design, Site analysis and site planning, Introduction to planting patterns, techniques and plants for floriculture, Introduction to Irrigation techniques, Miniature landscape/garden

**Practical-**

- Nursery Techniques
- Cultivation of plants
- Vegetative Propagation
- Flower Arrangement
- Bonsai technique
- Floral carpet
- Landscaping

**Distribution of Marks (100 M): -**

|   |     |
|---|-----|
| 1. Theory Paper                         | 80M |
| 2. Practical                            | 20M |
| a. Flower arrangement                   | 05M |
| b. Propagation Techniques               | 05M |
| c. Visit                                | 05M |
| d. Participation in various competition | 05M |

*Mahakhode*  
**Dr. Rupali H. Mahakhode**  
Assistant Professor  
Department of Botany  
SSES Amt's Science College  
Congress Nagar, Nagpur-440012.

Shri Shivaji Education Society Amravati's SCIENCE COLLEGE, Congress Nagar, Nagpur.

**Teaching Plan**  
**Certificate Course (10 Weeks)**  
**Floriculture And Landscaping**

| Week   | Hrs.        | Syllabus  |
|--------|-------------|---|
| Week 1 | Theory 1    | Introduction to Floriculture and Landscape  |
|        | Theory 2    | Importance and Scope of Floriculture and Landscape Gardening  |
|        | Practical 1 | <b>Nursery Techniques</b>   |
| Week 2 | Theory 3    | Methods of Vegetative Propagation-Cutting, Layering, Grafting, Budding,                                 |
|        | Theory 4    | Suckers, Rhizome, Tuber, Runner, Stolon, Bulbs, Corms, Bulbils, Nursery structure.                      |
|        | Practical 2 | <b>Cultivation of plants</b>  |
| Week 3 | Theory 5    | Some Routine Garden Operation- Soil sterilization, Seed sowing, Shading, Stopping or pinching, Pricking |
|        | Theory 6    | Planting and transplanting, staking, pruning, Clipping or cutting of hedges and edges, Mulching         |
|        | Practical 3 | <b>Vegetative Propagation</b>   |
| Week 4 | Theory 7    | Flowering Annuals, Herbaceous Perennial, Ornamental   |
|        | Theory 8    | Flowering Shrubs, Bougainvillea, Climbers   |
|        | Practical 4 | <b>Flower Arrangement</b>   |
| Week 5 | Theory 9    | Ornamental Bulbous Plants, Ornamental Foliage Plants, Cacti and Other Succulents                        |
|        | Theory 10   | Palms and Cycads, Ornamental Grasses, Ferns.  |
|        | Practical 5 | <b>Flower Arrangement</b>   |
| Week 6 | Theory 11   | Cultivation of Plants in pots, Commercial Floriculture,   |
|        | Theory 12   | Garlands and other floral ornaments   |
|        | Practical 6 | <b>Bonsai technique</b>   |

|         |              |   |
|---------|--------------|---|
| Week 7  | Theory 13    | Flower arrangements-Japanese flower arrangement                                 |
|         | Theory 14    | Bonsai technique  |
|         | Practical 7  | <b>Floral carpet</b>  |
| Week 8  | Theory 15    | Introduction to Landscape Design Process.                                       |
|         | Theory 16    | Studying elements of landscape design.  |
|         | Practical 8  | <b>Floral carpet</b>  |
| Week 9  | Theory 17    | Site analysis and site planning.  |
|         | Theory 18    | Introduction to planting patterns   |
|         | Practical 9  | <b>Landscaping</b>  |
| Week 10 | Theory 19    | Techniques and plants for floriculture<br>Introduction to Irrigation techniques |
|         | Theory 22    | Miniature landscape/garden  |
|         | Practical 10 | <b>Landscaping</b>  |

*Mahakhode*

Dr. Rupali H. Mahakhode  
Coordinator  
Floriculture and Landscaping  
Department of Botany  
**Dr. Rupali H. Mahakhode**  
Assistant Professor  
Department of Botany  
SSES Amt's Science College  
Congress Nagar, Nagpur-440012.

Shri Shivaji Education Society Amravati's SCIENCE COLLEGE, Congress Nagar, Nagpur.

**DEPARTMENT OF BOTANY**  
**CERTIFICATE COURSE: FLORICULTURE AND LANDSCAPING**  
**Session 2019-2020**

**TIME TABLE**

w.e.f. 02/0/8/2019

| Days     | Time                       |                                     |
|----------|----------------------------|-------------------------------------|
|          | Theory Classes             | Practical Classes                   |
| Friday   | 4:00 PM to 5:00 PM<br>(C5) | --                                  |
| Saturday | 4:00 PM to 5:00 PM<br>(C5) | 5:00 PM to 6:00 PM<br>(Botany Lab.) |

*Mahakhode*

Dr. Rupali H. Mahakhode  
Coordinator

Floriculture and Landscaping  
Dr. Rupali H. Mahakhode  
Department of Botany  
Assistant Professor

Department of Botany  
SSES Amt's Science College  
Congress Nagar, Nagpur-440012.

Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur.

Department of Botany  
Certificate Course  
Floriculture and Landscaping  
Session 2019-2020  
List of Registered Students

| Sr. No. |    | Name of Students            | Sr. No. |    | Name of Students              |
|---------|----|-----------------------------|---------|----|-------------------------------|
| 1       | KU | ADKINE DEVYANI PREMANAD     | 22      |    | AMBADE BHUWAN SUNIL           |
| 2       | KU | PATIL MEHTA RAMESH          | 23      | KU | BAIS KANIKA SHAILESHKUMAR     |
| 3       | KU | BHANGE PRATIKSHA MANOHAR    | 24      |    | BOKDE MOHIT SANJAYRAO         |
| 4       | KU | BHOYAR PRANALI MUKUNDA      | 25      | KU | CHAWARE APURVA RAMESH         |
| 5       | KU | BHUDE DHANASHREE SURESHRAO  | 26      | KU | DHAKATE PARUL PRAMOD          |
| 6       | KU | BOKDE MANSI SHRI RAM        | 27      | KU | DUDHPACHARE ABHILASHA ASHOK   |
| 7       | KU | BULKUNDE SEJAL SANJAY       | 28      |    | HINGLASPURKAR ATHARVA ABHAY   |
| 8       | KU | CHATURVEDI AANCHAL          | 29      | KU | ADE PAYAL SANJAY              |
| 9       | KU | CHOPDE NEHA RAJESH          | 30      | KU | AMBARE APEKSHA PRASHANT       |
| 10      | KU | KULDEEP KAUR BHAGWANT       | 31      |    | BARAPATRE PIYUSH DEVIDAS      |
| 11      |    | DAHIWALE VRISHABH SHIRISH   | 32      | KU | BHANDARKAR NANDINI SHASHIKANT |
| 12      |    | DESHBHRATAR PIYUSH ANAND    | 33      |    | BORKAR SUDHIR YADORAO         |
| 13      | KU | DHABRE SHUBHANGI KRUSHNARAO | 34      |    | FULZELE PRATIK SURESH         |
| 14      | KU | DHOBE LAXMI ANILRAO         | 35      | KU | GANJRE PRIYANKA ASHOK         |
| 15      |    | FADNAVIS MRUDUL             | 36      |    | HEMANE UMAKANT SHANKAR        |
| 16      |    | GAJBE MARGAN KISHOR         | 37      |    | JANBANDHU PARAG VIRENDRA      |
| 17      | KU | GAWANDE KALYANI PADMAKAR    | 38      | KU | LANJEWAR CHETNA ZANAKLAL      |
| 18      |    | GOUR ANSHUL LAXMINARAYAN    | 39      | KU | LAZARUS CELINA BERINCE DERICK |
| 19      | KU | JADHAO RIYA TARASINGH       | 40      | KU | MURARKAR PRAJAKTA HONAJI      |
| 20      | KU | JAGTAP VAISHNAVI            | 41      | KU | PATIL PRAJAKTA SURAJ          |
| 21      |    | KAMBLE SANKET BHUJANG       | 42      | KU | RAGHATATE DHANASHRI DILIP     |

|    |    |                              |    |    |                            |
|----|----|------------------------------|----|----|----------------------------|
| 43 |    | MASRAM LOKESH SHIVAJI        | 62 | KU | SHENDE RUTUJA              |
| 44 | KU | KATARIA KAJAL ANILKUMAR      | 63 | KU | KULDEEP KAUR BHAGWANT      |
| 45 |    | GOPAL UTTAM MANDAL           | 64 |    | AMBULKAR SWARAJ SANTOSH    |
| 46 |    | KHORGADDE ANIKET SEVAKRAM    | 65 | KU | BANERJEE TANUSHREE         |
| 47 |    | KOTHARI VEDANT RAJENDRA      | 66 | KU | BHALERAO RIDDHI RAHJIVA    |
| 48 | KU | MASE SHWETA SURESH           | 67 |    | BHOGE KSHITIJ SURENDRA     |
| 49 | KU | JAYSWAL SWETA                | 68 |    | BHOPULKAR ROHIT SHALIKRAM  |
| 50 |    | AMBULKAR SWARAJ SANTOSH      | 69 | KU | BOBDE PURVA PRADEEP        |
| 51 | KU | TIWARI SHRUTI YOGESH         | 70 |    | BRAMHANKAR TUSHAR SUDHAKAR |
| 52 |    | THAKARE TANMAY NARESH        | 71 | KU | CHAWLA SANJANA JAIDEV      |
| 53 | KU | BHOTMANGE AACHAL ASHOK       | 72 | KU | CHAUHAN DIVYA LALBHADUR    |
| 54 | KU | MESHARAM VRUDALI JOGENDRA    | 73 |    | SHINDE MAKARAND WAMANRAO   |
| 55 |    | RAO ANURAG KIRAN             | 74 | KU | PRABHA KANCHAN             |
| 56 |    | NAGARNAIK HRISHIKESH KISHORE | 75 | KU | TIJARE VINITA RAJENDRA     |
| 57 | KU | RAGHATATHE DHANASHRI DILIP   | 76 |    | TIWARI RISHI RAJ           |
| 58 | KU | NINAVE GIRISHMA ARUN         | 77 | KU | GHOSH SWAGATA SHYAMAL      |
| 59 | KU | SHAHARE LAXMI SHAMRAO        | 78 |    | KATORE ASHISH DILIPKUMAR   |
| 60 |    | JAIN ANUJ MANOJ              | 79 |    | KHADATKAR PRASAD VIJAY     |
| 61 |    | KHEDIKAR MOHIT KISHORE       | 80 |    | KUTARMARE SHASHANK ARUN    |

*Mahakhode*

Dr. Rupali H. Mahakhode  
Coordinator

Floriculture and Landscaping  
Dr. Rupali H. Mahakhode  
Assistant Professor  
Department of Botany  
Department of Botany  
SSES Amt's Science College  
Congress Nagar, Nagpur-440012.



SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.

**Department of Botany**  
**Certificate Course: Floriculture and Landscaping**  
**Session 2019-2020**

Date: 26/08/2019

**NOTICE**

All the registered students of Botany are hereby informed that they should remain present for workshop on "Flower arrangement and Bouquet making" under Floriculture & Landscaping Certificate Course on 31<sup>st</sup> August 2019 at 3.30 p.m. in Botany laboratory.

*R.H. Mahakhode*

Dr. R.H. Mahakhode  
Coordinator  
Floriculture & Landscaping  
Certificate Course  
Assistant Professor  
Department of Botany  
SSES Amt's Science College  
Congress Nagar, Nagpur-440012.

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.

**Department of Botany**  
**Certificate Course: Floriculture and Landscaping**  
**Session 2019-2020**

Date: 03/09/2019

**NOTICE**

All the registered students of Botany are hereby informed that they should remain present for workshop on "Bonsai Technique" under Floriculture & Landscaping Certificate Course on 7<sup>th</sup> September 2019 at 2.30 p.m. in Botany laboratory.

*Mahakhode*

Dr. R.H. Mahakhode

Coordinator

Floriculture & Landscaping

Certificate Course

Assistant Professor

Department of Botany

SSES Amt's Science College

Congress Nagar, Nagpur-440032

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.

**Department of Botany**  
**Certificate Course: Floriculture and Landscaping**  
**Session 2019-2020**

Date: 24/09/2019

**NOTICE**

All the registered students of Botany are hereby informed that they should remain present for guest lecture on "Landscape and its technique" under Floriculture & Landscape Gardening Certificate Course on 28<sup>th</sup> September 2019 at 4.00 p.m. in C-1 class room.

*R. Mahakhode*

Dr. R.H. Mahakhode

Coordinator

Floriculture & Landscaping

Dr. R.H. Mahakhode

Assistant Professor

Department of Botany

SSES Amt's Science College

Congress Nagar, Nagpur-440012.


Shri Shivaji Education Society Amravati's SCIENCE COLLEGE, Congress Nagar, Nagpur.

**DEPARTMENT OF BOTANY**  
**CERTIFICATE COURSE EXAMINATION (2019-2020)**  
**Certificate Course: Floriculture and Landscaping**

Date: 03/10/2019

**NOTICE**

All the admitted students of B.Sc. Botany are hereby informed that the certificate course on "Floriculture and Landscaping" examination will be held on 19/10/2019 (Saturday) at 11:00 am to 12:30 pm in Botany Laboratory at our college centre. All Students should be present in the laboratory before 10 mins. of scheduled time of examination.

  
Dr. Rupali H. Mahakhode  
Coordinator  
Floriculture and Landscaping  
Dr. Rupali H. Mahakhode  
Assistant Professor  
Department of Botany  
SSES Amt's Science College  
Congress Nagar, Nagpur-440012.

Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur.

**DEPARTMENT OF BOTANY**  
**CERTIFICATE COURSE EXAMINATION 2019-2020**  
**FLORICULTURE AND LANDSCAPING**

Centre- Shivaji Science College, Nagpur.  
Time: 11:00 am-12:30 pm

Date: 19/10/2019  
Marks: 80M

| Sr. No. | Roll No. | Name of Students              | Signature          |
|---------|----------|-------------------------------|--------------------|
| 1       |          | KU ADKINE DEVYANI PREMANAD    | <i>Adkine</i>      |
| 2       |          | KU PATIL MEHTA RAMESH         | <i>Patil</i>       |
| 3       |          | KU BHANGE PRATIKSHA MANOHAR   | <i>Pratisha</i>    |
| 4       |          | KU BHOYAR PRANALI MUKUNDA     | <i>P.M. Bhojar</i> |
| 5       |          | KU BHUDE DHANASHREE SURESHRAO | <i>D. Bhude</i>    |
| 6       |          | KU BOKDE MANSI SHRI RAM       | <i>Mansi B.</i>    |
| 7       |          | KU BULKUNDE SEJAL SANJAY      | <i>Bulkunde</i>    |
| 8       |          | KU CHATURVEDI AANCHAL         | <i>A.</i>          |
| 9       |          | KU CHOPDE NEHA RAJESH         | <i>Neha</i>        |
| 10      |          | KU KULDEEP KAUR BHAGWANT      | <i>Kuldeep</i>     |
| 11      |          | DAHIWALE VRISHABH SHIRISH     | <i>V.D</i>         |
| 12      |          | DESHBHRATAR PIYUSH ANAND      | <i>Deshbhatar</i>  |
| 13      | KU       | DHABRE SHUBHANGI KRUSHNARAO   | <i>Shubhangi</i>   |
| 14      | KU       | DHOBE LAXMI ANILRAO           | <i>Laxmi</i>       |
| 15      |          | FADNAVIS MRUDUL               | <i>Fadnavis</i>    |
| 16      |          | GAJBE MARGAN KISHOR           | <i>Gajbe</i>       |
| 17      | KU       | GAWANDE KALYANI PADMAKAR      | <i>Gawande</i>     |
| 18      |          | GOUR ANSHUL LAXMINARAYAN      | <i>Anshul</i>      |

|    |  |    |                               |                      |
|----|--|----|-------------------------------|----------------------|
| 19 |  | KU | JADHAO RIYA TARASINGH         | <u>Rjadhao</u>       |
| 20 |  | KU | JAGTAP VAISHNAVI              | <u>Jagtap</u>        |
| 21 |  |    | KAMBLE SANKET BHUJANG         | <u>Kambhe</u>        |
| 22 |  |    | AMBADE BHUWAN SUNIL           | <u>Ab</u>            |
| 23 |  | KU | BAIS KANIKA SHAILESHKUMAR     | <u>Kanika..</u>      |
| 24 |  |    | BOKDE MOHIT SANJAYRAO         | <u>S Bokde</u>       |
| 25 |  | KU | CHAWARE APURVA RAMESH         | <u>Archanav</u>      |
| 26 |  | KU | DHAKATE PARUL PRAMOD          | <u>Parul</u>         |
| 27 |  | KU | DUDHPACHARE ABHILASHA ASHOK   | <u>Abhi</u>          |
| 28 |  |    | HINGLASPURKAR ATHARVA ABHAY   | <u>Atharva</u>       |
| 29 |  | KU | ADE PAYAL SANJAY              | <u>P.S. Ade</u>      |
| 30 |  | KU | AMBARE APEKSHA PRASHANT       | <u>Apj</u>           |
| 31 |  |    | BARAPATRE PIYUSH DEVIDAS      | <u>P.D. Bandhu</u>   |
| 32 |  | KU | BHANDARKAR NANDINI SHASHIKANT | <u>NBhandkar</u>     |
| 33 |  |    | BORKAR SUDHIR YADORAO         | <u>Borkar</u>        |
| 34 |  |    | FULZELE PRATIK SURESH         | <u>Pratik</u>        |
| 35 |  | KU | GANJRE PRIYANKA ASHOK         | <u>Priya</u>         |
| 36 |  |    | HEMANE UMAKANT SHANKAR        | <u>Umakant</u>       |
| 37 |  |    | JANBANDHU PARAG VIRENDRA      | <u>P.Janbandhu</u>   |
| 38 |  | KU | LANJEWAR CHETNA ZANAKLAL      | <u>Chanjewar</u>     |
| 39 |  | KU | LAZARUS CELINA BERINCE DERICK | <u>Celina</u>        |
| 40 |  | KU | MURARKAR PRAJAKTA HONAJI      | <u>P. Murkar</u>     |
| 41 |  | KU | PATIL PRAJAKTA SURAJ          | <u>Patil</u>         |
| 42 |  | KU | RAGHATATE DHANASHRI DILIP     | <u>Raghatate</u>     |
| 43 |  |    | MASRAM LOKESH SHIVAJI         | <u>Lokesh Masram</u> |
| 44 |  | KU | KATARIA KAJAL ANILKUMAR       | <u>K. Kataria</u>    |

|    |  |    |                              |               |
|----|--|----|------------------------------|---------------|
| 45 |  |    | GOPAL UTTAM MANDAL           | Gopal         |
| 46 |  |    | KHORGADDE ANIKET SEVAKRAM    | Aniket        |
| 47 |  |    | KOTHARI VEDANT RAJENDRA      | Vedant        |
| 48 |  | KU | MASE SHWETA SURESH           | Shweta        |
| 49 |  | KU | JAYSWAL SWETA                | Sweta         |
| 50 |  |    | AMBULKAR SWARAJ SANTOSH      | Ambulkar      |
| 51 |  | KU | TIWARI SHRUTI YOGESH         | Yogesh        |
| 52 |  |    | THAKARE TANMAY NARESH        | Tanmay        |
| 53 |  | KU | BHOTMANGE AACHAL ASHOK       | A. Bhotmange  |
| 54 |  | KU | MESHARAM VRUDALI JOGENDRA    | Vrudali       |
| 55 |  |    | RAO ANURAG KIRAN             | Anurag        |
| 56 |  |    | NAGARNAIK HRISHIKESH KISHORE | HRishikesh    |
| 57 |  | KU | RAGHATATHE DHANASHRI DILIP   | Dhanashri     |
| 58 |  | KU | NINAVE GIRISHMA ARUN         | Girishma      |
| 59 |  | KU | SHAHARE LAXMI SHAMRAO        | Laxmi         |
| 60 |  |    | JAIN ANUJ MANOJ              | Anuj          |
| 61 |  |    | KHEDIKAR MOHIT KISHORE       | Mohit         |
| 62 |  | KU | SHENDE RUTUJA                | Rutu          |
| 63 |  | KU | KULDEEP KAUR BHAGWANT        | Kuldeep       |
| 64 |  |    | AMBULKAR SWARAJ SANTOSH      | Swaraj        |
| 65 |  | KU | BANERJEE TANUSHREE           | Tanu          |
| 66 |  | KU | BHALERAO RIDDHI RAHJIVA      | Ridhi         |
| 67 |  |    | BHOGE KSHITIJ SURENDRA       | Kshiti        |
| 68 |  |    | BHOPULKAR ROHIT SHALIKRAM    | Rohit         |
| 69 |  | KU | BOBDE PURVA PRADEEP          | Purva         |
| 70 |  |    | BRAMHANKAR TUSHAR SUDHAKAR   | T. Bramhankar |

|    |  |    |                          |                 |
|----|--|----|--------------------------|-----------------|
| 71 |  | KU | CHAWLA SANJANA JAIDEV    | S. Chawla       |
| 72 |  | KU | CHAUHAN DIVYA LALBHADUR  | D Chauhan       |
| 73 |  |    | SHINDE MAKARAND WAMANRAO | M. Shinde       |
| 74 |  | KU | PRABHA KANCHAN           | Kanchan         |
| 75 |  | KU | TIJARE VINITA RAJENDRA   | Vinita Rajendra |
| 76 |  |    | TIWARI RISHI RAJ         | Raj             |
| 77 |  | KU | GHOSH SWAGATA SHYAMAL    | S. Ghosh        |
| 78 |  |    | KATORE ASHISH DILIPKUMAR | Ashish          |
| 79 |  |    | KHADATKAR PRASAD VIJAY   | Prasad          |
| 80 |  |    | KUTARMARE SHASHANK ARUN  | Shubankar       |

*Mahakhode*

Dr. Rupali H. Mahakhode  
Coordinator

Floriculture and Landscaping

Dr. Rupali H. Mahakhode  
Assistant Professor

Department of Botany

Department of Botany  
SSES Amt's Science College  
Congress Nagar, Nagpur-440012.



Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur.

**Department of Botany  
Certificate Course Examination  
Floriculture & Landscaping  
Session-2019-2020**

Name: \_\_\_\_\_ Roll No: \_\_\_\_\_

Class: \_\_\_\_\_ Group: \_\_\_\_\_ Invigilator Sign: \_\_\_\_\_

Name and Signature of Valuer: \_\_\_\_\_ Marks Obtained: \_\_\_\_\_

Time: 1:30 hr.

Max. Marks: 80

Note: 1) All questions are compulsory and carry equal marks.

Q. Multiple choice question-

(40 X 2 Marks)

1. The leaf like structure that protects the budding flower is-
  - a. Petal
  - b. Sepal
  - c. Anther
  - d. Style
2. Vegetative part of the plant separated from mother plant and become a new plant is called
  - a. Grafting
  - b. Inarching
  - c. Cutting
  - d. Layering
3. For jelly production what is required in fruit-
  - a. Protein
  - b. Pectin
  - c. Sourness
  - d. Sweetness
4. The reproductive structure of a flowering plant is -
  - a. Root
  - b. Stem
  - c. Flower
  - d. Leaf
5. Which of the following is complex morphological unit
  - a. Seed
  - b. Vegetable
  - c. Fruit
  - d. Flower
6. What are the effects of warm colors plant in landscape design?
  - a. Energy
  - b. Relaxing
  - c. Peace
  - d. None of the above
7. Mosaic disease is caused by
  - a. Bacteria
  - b. Fungi
  - c. Nematode
  - d. Virus
8. The male reproductive part of a flowering plant-
  - a. Stamen
  - b. Petal
  - c. Carpel
  - d. Sepal

9. King of fruit is -
- Watermelon
  - Mango
  - Citrus
  - Grapes
10. Light intensity in greenhouse is not controlled by
- Aluminum
  - White nylon
  - Black nylon
  - Tarpaulin
11. *Withania somnifera* is botanical name of -
- Sarpagandha
  - Ashwagandha
  - Shatavar
  - Safed Musli
12. Flowering plant are also called-
- Ferns
  - Angiosperm
  - Gymnosperms
  - Mosses
13. Normal humidity in greenhouse should be.....%
- 40-50
  - 60-65
  - 70-80
  - 80-100
14. Soil decontamination in greenhouse is done by
- Heat treatment
  - Fumigation
  - Solarisation
  - All of above
15. The part of flowering plant that contains pollen is called -
- Filament
  - Stigma
  - Style
  - Anther
16. Which is the most common germicide
- Sodium chloride
  - Potassium chloride
  - Tween 20
  - Sodium hydrochloride
17. What is the Environmental role of a landscape design?
- Pollution control
  - Noise control
  - Sound control
  - Both A and B
18. Bonsai culture originated in
- China
  - Japan
  - India
  - Sri Lanka
19. Japanese arrangement of flowers is known as
- Ikebana
  - Tatebana
  - Suchigama
  - All of above
20. Ideal time of planting bonsai is
- Feb.-March
  - July- Aug.
  - Both a & b
  - None of above
21. Area of the home which is visible from the street is known as-
- Public
  - Front
  - Approach
  - All of these
22. What are the effects of water in landscape design?
- Water runoff reduced.
  - Microclimate created.
  - Both A & B
  - None of the above

23. Important principle of landscape is
- Habit
  - Form
  - Mobility
  - Simplicity
24. Which of the following is not a softscape element?
- Trees
  - Shrubs
  - Paver
  - Fern
25. Which of the following is not a woody landscape plant
- Tree
  - Climber
  - Annual
  - Shrub
26. Which of the following is an element of landscape design?
- Form and texture
  - Scale and balance
  - Both A and B
  - None of the above
27. Which has a fine texture foliage
- Jacaranda
  - Silver oak
  - Deodar
  - All of these
28. Which of the following wire is most suitable for making bonsai
- Plastic
  - Copper
  - Iron
  - All of these
29. What are the effects of cool colors plant in landscape design?
- Energetic
  - Relaxing
  - Excitement
  - Calmness
30. Important element of landscaping is
- Habit
  - Balance
  - Rhythm
  - Scale
31. Which of the following is not a terrestrial ecosystem?
- Forest
  - Grassland
  - Fresh water
  - Garden
32. Which of the following tree form will belong to coconut tree?
- Vase
  - Columnar
  - Fountain
  - None of the above
33. What are the characteristics of woodland ground cover?
- Vigorous growth
  - High moisture content
  - Dense foliage
  - Low moisture content
34. First level of the plant ecosystem
- Pond bacteria, Phytoplankton
  - Diatoms, Protozoa
  - Aquatic plant
  - All of the above
35. Which of the following tree form will belong to Neem tree?
- Spread
  - Round
  - Fountain
  - Herb
36. The term \_\_\_\_\_, in a botanical sense, refers to a tree that sheds its leaves annually.
- Evergreen
  - Pine
  - Deciduous
  - Spring

37. What is the height of an intermediate tree?

- a. 40 feet
- b. 30 feet and above
- c. 10feet
- d. 20 feet

38. The purpose of creating outdoor rooms are

- a. Welcoming atmosphere
- b. Encourage movement
- c. Both A & B
- d. None of the above

39. Informal balance in the landscape design emphasize on

- a. Curiosity
- b. Stability
- c. Dignity
- d. Encouraging

40. What are the effects of vase shaped tree in landscape design?

- a. Comfortable space beneath the canopy
- b. Lead the eye back to the ground
- c. Direct the eyes upward
- d. Both A and B

SSES Amt's Science College, Congress Nagar, Nagpur.  
**CERTIFICATE COURSE IN**  
**FLORICULTURE AND LANDSCAPING**  
 Theory Examination Based On M.C.Q. Type Questions,  
 19/10/2019  
 OMR SHEET

46

Roll No 13

Signature Of Coordinator RA

TICK ✓ ON WRITE ANSWER (Dr. R.H. Mahakhele)  
 (TIME- 1 HOUR)

| QUESTION NO. | OPTIONS |     |     |     |
|--------------|---------|-----|-----|-----|
| ✓ QUE.1      | a       | b ✓ | c   | d   |
| ✓ QUE.2      | a       | b   | c ✓ | d   |
| ✓ QUE.3      | a       | b ✓ | c   | d   |
| ✓ QUE.4      | a       | b   | c ✓ | d   |
| ✓ QUE.5      | a       | b   | c   | d ✓ |
| ✓ QUE.6      | a ✓     | b   | c   | d   |
| ✓ QUE.7      | a       | b   | c   | d ✓ |
| ✓ QUE.8      | a ✓     | b   | c   | d   |
| ✓ QUE.9      | a       | b ✓ | c   | d   |
| ✓ QUE.10     | a       | b   | c   | d ✓ |
| ✓ QUE.11     | a       | b ✓ | c   | d   |
| ✓ QUE.12     | a       | b ✓ | c   | d   |
| ✓ QUE.13     | a       | b ✓ | c   | d   |
| ✓ QUE.14     | a       | b   | c   | d ✓ |
| ✓ QUE.15     | a       | b   | c   | d ✓ |
| ✓ QUE.16     | a       | b   | c   | d ✓ |
| ✓ QUE.17     | a       | b   | c   | d ✓ |
| ✓ QUE.18     | a ✓     | b   | c   | d   |
| ✓ QUE.19     | a ✓     | b   | c   | d   |
| ✓ QUE.20     | a       | b   | c ✓ | d   |
| ✓ QUE.21     | a       | b   | c   | d ✓ |
| ✓ QUE.22     | a       | b   | c ✓ | d   |
| ✓ QUE.23     | a       | b   | c   | d ✓ |
| QUE.24       | a       | b   | c   | d   |
| QUE.25       | a       | b   | c   | d   |
| QUE.26       | a       | b   | c   | d   |
| QUE.27       | a ✓     | b   | c   | d   |
| QUE.28       | a       | b   | c   | d   |
| QUE.29       | a       | b   | c   | d   |
| QUE.30       | a ✓     | b   | c   | d   |
| QUE.31       | a       | b   | c   | d   |
| QUE.32       | a ✓     | b   | c   | d   |
| QUE.33       | a       | b   | c   | d   |
| QUE.34       | a       | b   | c   | d ✓ |
| QUE.35       | a       | b   | c   | d   |
| QUE.36       | a       | b   | c   | d   |
| QUE.37       | a       | b   | c   | d ✓ |
| QUE.38       | a       | b   | c   | d ✓ |
| QUE.39       | a       | b ✓ | c   | d   |
| QUE.40       | a       | b   | c ✓ | d   |

Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur.

Department of Botany  
Certificate Course  
Floriculture and Landscaping  
Session 2019-2020

| Sr. No. | Roll No. |    | Name of Students            | Marks  |           | Total Marks | Grades |
|---------|----------|----|-----------------------------|--------|-----------|-------------|--------|
|         |          |    |                             | Theory | Practical |             |        |
| 1       |          | KU | ADKINE DEVYANI PREMANAD     | 54     | 18        | 72          | A      |
| 2       |          | KU | PATIL MEHTA RAMESH          | 66     | 19        | 85          | A+     |
| 3       |          | KU | BHANGE PRATIKSHA MANOHAR    | 60     | 16        | 76          | A      |
| 4       |          | KU | BHOYAR PRANALI MUKUNDA      | 62     | 17        | 79          | A      |
| 5       |          | KU | BHUDE DHANASHREE SURESHRAO  | 40     | 14        | 54          | B      |
| 6       |          | KU | BOKDE MANSI SHRI RAM        | 60     | 17        | 77          | A      |
| 7       |          | KU | BULKUNDE SEJAL SANJAY       | 78     | 18        | 96          | O      |
| 8       |          | KU | CHATURVEDI AANCHAL          | 74     | 15        | 89          | A+     |
| 9       |          | KU | CHOPDE NEHA RAJESH          | 76     | 16        | 92          | O      |
| 10      |          | KU | KULDEEP Kaur BHAGWANT       | 32     | 20        | 52          | B      |
| 11      |          |    | DAHIWALE VRISHABH SHIRISH   | 42     | 15        | 57          | B      |
| 12      |          |    | DESHBHRATAR PIYUSH ANAND    | 56     | 18        | 74          | A      |
| 13      |          | KU | DHABRE SHUBHANGI KRUSHNARAO | 46     | 16        | 62          | B+     |
| 14      |          | KU | DHOBE LAXMI ANILRAO         | 36     | 19        | 55          | B      |
| 15      |          |    | FADNAVIS MRUDUL             | 34     | 14        | 48          | C      |
| 16      |          |    | GAJBE MARGAN KISHOR         | 30     | 16        | 46          | C      |
| 17      |          | KU | GAWANDE KALYANI PADMAKAR    | 40     | 12        | 52          | B      |
| 18      |          |    | GOUR ANSHUL LAXMINARAYAN    | 56     | 11        | 67          | B+     |
| 19      |          | KU | JADHAO RIYA TARASINGH       | 54     | 19        | 73          | A      |
| 20      |          | KU | JAGTAP VAISHNAVI            | 60     | 17        | 77          | A      |
| 21      |          |    | KAMBLE SANKET BHUJANG       | 48     | 17        | 65          | B      |
| 22      |          |    | AMBADE BHUWAN SUNIL         | 34     | 13        | 47          | C      |
| 23      |          | KU | BAIS KANIKA SHAILESHKUMAR   | 68     | 10        | 78          | A      |
| 24      |          |    | BOKDE MOHIT SANJAYRAO       | 64     | 14        | 78          | A      |
| 25      |          | KU | CHAWARE APURVA RAMESH       | 64     | 15        | 79          | A      |
| 26      |          | KU | DHAKATE PARUL PRAMOD        | 66     | 16        | 82          | A+     |

|    |    |                               |    |    |    |    |
|----|----|-------------------------------|----|----|----|----|
| 27 | KU | DUDHPACHARE ABHILASHA ASHOK   | 78 | 17 | 95 | O  |
| 28 |    | HINGLASPURKAR ATHARVA ABHAY   | 52 | 14 | 66 | B+ |
| 29 | KU | ADE PAYAL SANJAY              | 76 | 18 | 64 | O  |
| 30 | KU | AMBARE APEKSHA PRASHANT       | 44 | 16 | 60 | B  |
| 31 |    | BARAPATRE PIYUSH DEVIDAS      | 70 | 18 | 88 | A+ |
| 32 | KU | BHANDARKAR NANDINI SHASHIKANT | 50 | 18 | 68 | B+ |
| 33 |    | BORKAR SUDHIR YADORAO         | 32 | 14 | 46 | C  |
| 34 |    | FULZELE PRATIK SURESH         | 58 | 12 | 70 | B+ |
| 35 | KU | GANJRE PRIYANKA ASHOK         | 38 | 11 | 49 | C  |
| 36 |    | HEMANE UMAKANT SHANKAR        | 60 | 14 | 74 | A  |
| 37 |    | JANBANDHU PARAG VIRENDRA      | 46 | 17 | 63 | B+ |
| 38 | KU | LANJEWAR CHETNA ZANAKLAL      | 38 | 15 | 53 | B  |
| 39 | KU | LAZARUS CELINA BERINCE DERICK | 36 | 15 | 51 | B  |
| 40 | KU | MURARKAR PRAJAKTA HONAJI      | 58 | 14 | 72 | A  |
| 41 | KU | PATIL PRAJAKTA SURAJ          | 36 | 12 | 48 | C  |
| 42 | KU | RAGHATATE DHANASHRI DILIP     | 46 | 10 | 56 | B  |
| 43 |    | MASRAM LOKESH SHIVAJI         | 60 | 14 | 74 | A  |
| 44 | KU | KATARIA KAJAL ANILKUMAR       | 56 | 19 | 75 | A  |
| 45 |    | GOPAL UTTAM MANDAL            | 42 | 19 | 61 | B+ |
| 46 |    | KHORGADDE ANIKET SEVAKRAM     | 44 | 16 | 60 | B  |
| 47 |    | KOTHARI VEDANT RAJENDRA       | 58 | 13 | 71 | A  |
| 48 | KU | MASE SHWETA SURESH            | 44 | 12 | 56 | B  |
| 49 | KU | JAYSWAL SWETA                 | 74 | 15 | 89 | A+ |
| 50 |    | AMBULKAR SWARAJ SANTOSH       | 46 | 11 | 57 | B  |
| 51 | KU | TIWARI SHRUTI YOGESH          | 60 | 17 | 77 | A  |
| 52 |    | THAKARE TANMAY NARESH         | 72 | 20 | 92 | O  |
| 53 | KU | BHOTMANGE AACHAL ASHOK        | 72 | 18 | 90 | A+ |
| 54 | KU | MESHRAM VRUDALI JOGENDRA      | 32 | 14 | 46 | C  |
| 55 |    | RAO ANURAG KIRAN              | 78 | 15 | 93 | O  |
| 56 |    | NAGARNAIK HRISHIKESH KISHORE  | 72 | 18 | 90 | A+ |
| 57 | KU | RAGHATATHE DHANASHRI DILIP    | 40 | 16 | 56 | B  |
| 58 | KU | NINAVE GIRISHMA ARUN          | 74 | 20 | 94 | O  |
| 59 | KU | SHAHARE LAXMI SHAMRAO         | 52 | 15 | 67 | B+ |
| 60 |    | JAIN ANUJ MANOJ               | 72 | 18 | 90 | A+ |
| 61 |    | KHEDIKAR MOHIT KISHORE        | 72 | 19 | 91 | O  |

|    |    |                            |    |    |    |    |
|----|----|----------------------------|----|----|----|----|
| 62 | KU | SHENDE RUTUJA              | 62 | 14 | 76 | A  |
| 63 | KU | KULDEEP KAUR BHAGWANT      | 40 | 17 | 57 | B  |
| 64 |    | AMBULKAR SWARAJ SANTOSH    | 58 | 16 | 74 | A  |
| 65 | KU | BANERJEE TANUSHREE         | 74 | 18 | 92 | O  |
| 66 | KU | BHALERAO RIDDHI RAHJIVA    | 72 | 16 | 88 | A+ |
| 67 |    | BHOGE KSHITIJ SURENDRA     | 44 | 12 | 56 | B  |
| 68 |    | BHOPULKAR ROHIT SHALIKRAM  | 48 | 14 | 62 | B+ |
| 69 | KU | BOBDE PURVA PRADEEP        | 46 | 10 | 56 | B  |
| 70 |    | BRAMHANKAR TUSHAR SUDHAKAR | 66 | 14 | 80 | A  |
| 71 | KU | CHAWLA SANJANA JAIDEV      | 72 | 18 | 90 | A+ |
| 72 | KU | CHAUHAN DIVYA LALBHADUR    | 44 | 14 | 58 | B  |
| 73 |    | SHINDE MAKARAND WAMANRAO   | 54 | 15 | 69 | B+ |
| 74 | KU | PRABHA KANCHAN             | 56 | 15 | 71 | A  |
| 75 | KU | TIJARE VINITA RAJENDRA     | 76 | 19 | 95 | O  |
| 76 |    | TIWARI RISHI RAJ           | 62 | 14 | 76 | A  |
| 77 | KU | GHOSH SWAGATA SHYAMAL      | 48 | 16 | 64 | B+ |
| 78 |    | KATORE ASHISH DILIPKUMAR   | 58 | 16 | 74 | A  |
| 79 |    | KHADATKAR PRASAD VIJAY     | 62 | 15 | 77 | A  |
| 80 |    | KUTARMARE SHASHANK ARUN    | 34 | 17 | 51 | B  |

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Dr. Rupali H. Mahakhode  
Coordinator

Floriculture and Landscaping

Department of Botany  
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Department of Botany

SSES Amt's Science College

Congress Nagar, Nagpur-440012.



## **ACTION TAKEN REPORT**

The Department of Botany successfully organized a Certificate Course in "Floriculture and Landscaping" during the 2019-20 session, which spanned 10 weeks from 2<sup>nd</sup> August to 5<sup>th</sup> October 2019. The course, consisting of 30 hours of instruction, included weekly lectures, practical sessions, and hands-on workshops aimed at enhancing students' skills in floriculture and landscaping. Key activities included a workshop on 'Flower Arrangement and Bouquet Making' led by Dr. Sunita Sharma, and a 'Bonsai Technique' workshop by Prof. Anjali Phaley, where students learned to create miniature trees. A guest lecture by Mr. Amit Pophali on 'Landscape and its Technique' further enriched the curriculum.

The course culminated in both theoretical and practical examinations, assessing students on objective questions and their participation in various skill-based activities. The successful completion of the course equipped 80 registered students with the knowledge and practical skills to pursue opportunities in floriculture, landscaping, and related entrepreneurial ventures. Certificates were awarded to participants, recognizing their achievements and readiness to apply these skills in professional settings.

*Mahakhode*

Dr. Rupali H. Mahakhode  
Coordinator  
Floriculture and Landscaping

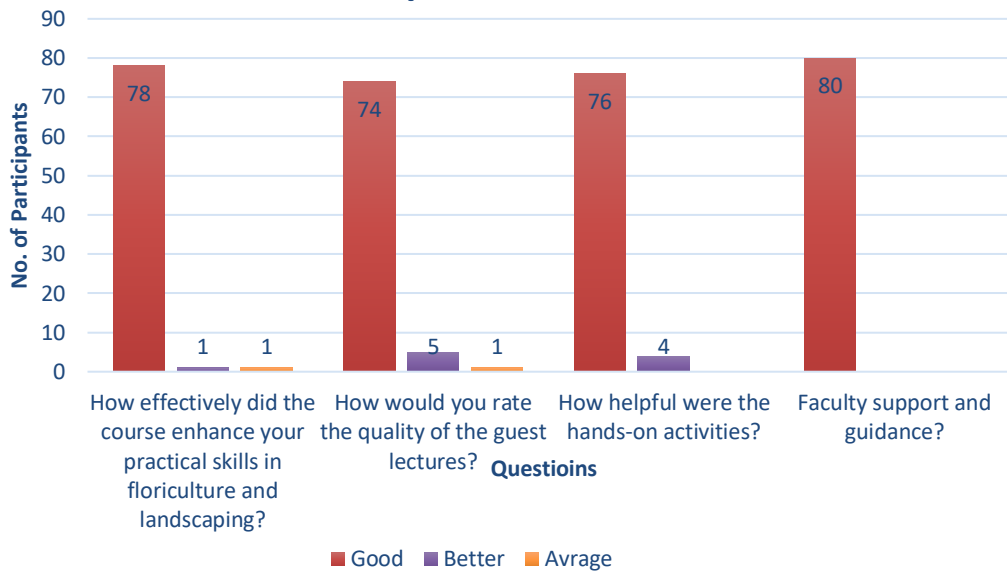
## FEEDBACK FORM

| Sr. No. | Question  | Response |        |         |
|---------|---|----------|--------|---------|
|         |   | Good     | Better | Average |
| 1)      | How effectively did the course enhance your practical skills in floriculture and landscaping? |          |        |         |
| 2)      | How would you rate the quality of the guest lectures?   |          |        |         |
| 3)      | How helpful were the hands-on activities?   |          |        |         |
| 4)      | Faculty support and guidance?   |          |        |         |

*R. Mahakhode*

Dr. Rupali H. Mahakhode  
Coordinator  
Floriculture and Landscaping

## Participant Feedback



*Mahakhode*

Dr. Rupali H. Mahakhode  
Coordinator  
Floriculture and Landscaping

*Dr. P. B. Halder*

Signature of IQAC Coordinator  
Internal Quality Assurance Cell  
(IQAC)

S. S. E. S. Amravati's Science College  
Congress Nagar, Nagpur  
Score approved by the S. S. E. S. Amravati's Science College  
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Signature of Principal

Principal  
S. S. E. S. Amravati's  
Science College, Nagpur.



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**CERTIFICATE**

Mr./Ku. Shubhangi K. Dhabre is awarded with certificate on successful completion of the course entitled, Certificate course in "Floriculture and Landscaping".

Session 2019-20 under Add-on course conducted for 30 hours from 02/08/2019 to 05/10/2019 by Department of Botany, SSES's, Science College, congress Nagar, Nagpur 440012.

He/She has passed the Examination with 'B' Grade.

Mahakhode

**Dr. Mrs. R. H. Mahakhode**  
Coordinator, Department of Botany

Dhore

**Prof. M. P. Dhore**  
Principal, Science College