

ATUL VIDYA MANDIR WARDHA'S



RAJARSHEE SHAHU SCIENCE COLLEGE

Chandur Railway, Dist – Amravati, Maharashtra



Affiliated to

Sant Gadge Baba Amravati University, Amravati



2nd Cycle

Assessment & Accreditation by NAAC

CRITERIA I- Curricular Aspects

1.2: Academic Flexibility

Metric No. - 1.2.1

Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc.



Atul Vidya Mandir, Wardha's
Rajarshee Shahu Science College

Virul Road, Chandur Rly, Dist. Amravati PIN - 444 904

(College Code : 807)

PRESIDENT
Prof. Mrs. Uttaratai V. Jagtap

SECRETARY
Prof. Virendrabhau W. Jagtap

PRINCIPAL
Dr. M.P. Chikhale

Website : www.rssc.edu.in | Email : rajarsheeshahucollege@rediffmail.com | rsscprincipal@gmail.com | (Office) 07222-254111

Ref. No. RSSC/132/23

Date: 17.03.2023

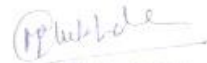
Declaration

The information, reports, true copies of the documents, numerical data, etc furnished in this file is verified by IQAC and found correct.


IQAC Co-ordinator
Rajarshee Shahu Science College
Chandur Rly., Dist. Amravati

(Dr. Minal Keche)




Principal
Rajarshee Shahu Science College
Chandur Rly., Dist. Amravati

(Dr. Mahesh Chikhale)
Chairman IQAC and Principal)

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Session 2017-18

Certificate Course In Textile Weaving

➤ Syllabus of Course

Certificate Course in Textile Weaving

Duration : 3 Months
Eligibility : 10th and Above Qualification

Syllabus Scheme

| Sr. No. | Paper No. | Total Workload | Max Marks | Internal Marks | External Marks | Min. Pass Marks |
|---------|----------------------|----------------|-----------|----------------|----------------|-----------------|
| 1 | Paper I - Theory | 92 hrs | 100 | | | 50 |
| 2 | Paper II – Practical | 60 hrs | 100 | 20 | 80 | 50 |

Note :

1. Internal Assessment for theory shall be based on performance in unit test & assignment.
2. Internal Assessment for practical shall be based on followings.
 - i) Site Visit : 10 Marks
 - ii) Record Book : 05 Marks
 - iii) Viva Voce : 05 Marks

Certificate Course in Textile Weaving

Paper : I

Lectures to be Delivered : Max. Marks :
Periods per Week : Min. Marks For Passing :

Unit – I : Introduction: Sectional Warping 10 Hours

Details of Sectional Warping machine, Creeling pattern and the quality requirements, Importance of Sectional, warping, creeling the cones as per pattern setting the length per section and section width, Importance of maintaining uniform tension all the time.

Unit – II : Beam Warping: 10Hours

Knowledge of colour codification, Knowledge of yarn count, cone weight and the weaver's knot.

Unit – III : Knotting & Tying 20 Hours

Basics of Beam knotting, gaiting and dressing, Basics of knotting machine and its operations, Basics of beam gaiting and its operations, Knowledge about the working of the machines in a safe and hygienic manner, Knowledge about the working of the Knotter in a safe and hygienic manner, Precautions for using a Knotter for new sort introduction.

Unit – IV : Air Jet Looms 40 Hours

Knowledge about the working of the Air Jet Looms, Knowledge about the shade differences and the weave of the fabric, Basic motions of Air-jet looms, Study of Let-off, Take-up, Weft selector and warp stop motions, Dobby motions, selvedge motions, air-pressure controls, relay nozzles, main nozzle, profile reed, etc, Fabric defects, their causes and remedial measures.

Unit – V : Safety, Security & Discipline 20 Hours

Importance of cleanliness and personal safety, Fire fighting and First aid, Safety gadgets in a spinning factory, Precautions to be taken while working, importance of disciplines at work.

Books Recommended :

1. Handbook of Weaving by- Sabit Adanur
2. The Everything Knots book for time and Knot – Randy Penn
3. The Course of Loom development by- Teruo Ishida
4. Industrial Safety by- Chetan Prakashan

PRACTICALS

| | | | |
|--------------------|---|-----------|-------|
| No. Of Practical's | : | Max Marks | : 100 |
| a) Practical Exam | : | 80 | |
| b) Field Visit | : | 10 | |
| c) Record Book | : | 5 | |
| d) Viva Voce | : | 5 | |

1. Understanding the Warping machine and its creel.
2. Understanding the pattern and creeling the cones in their respective places.
3. Taking the ends out, passing through the tension guides and taking up to front and tying all ends of the section together after drawing in the reeds
4. Pulling the yarns together on the swift. Setting the section width. Setting the section length by considering the minimum length of yarns on cones.
5. Leasing.
6. Winding the required number of sections.
7. Attending the breaks and putting weaver's knot.
8. Transferring the warp sheet from swift to a weaver's beam
9. Understanding the salient features of super high speed warping machine and its Controls.
10. Understanding the pattern and creeling the cones in their respective places.
11. Setting the length by considering the minimum length of yarns on cones.
12. Doffing the full beam and sending to sizing after recording the weight.
13. Understanding the requirements of the beam and loom to be gaited.
14. Taking the dressing table near the beam doffed or near the stationary frame as the case may be.
15. To dress the tail ends from the stand or from the loom as the case may be. Adjust the ends evenly and with proper tension.
16. To take the sheet of yarn from the sized beam and to dress it likewise the tail-end sheet.
17. Practicing the safety systems by wearing head cover and masks
18. Collecting the hard wastes.
19. Understanding the requirements of the beam being mounted, the design and draft and its continuity with the running out beam.
20. Repairing the broken ends if any in the already dressed set, and spraying water or other liquid as required. Adjusting the machine for working.
21. Fixing the needle for proper count and starting the machine.
22. Pull the knots through the healds and reed as soon as knotting is over and tie them properly to the beam.
23. Auditing the parts needed and indenting them. Taking the help of fitter in case of major repairs.
24. To understand the material being woven on the loom and the weft in different positions of the weft feeder.
25. Maintaining the air pressure as needed.
26. Attending the breaks and restarting the looms, while correcting any half pick or full double pick.
27. Keeping the machine always clean and periodically cleaning the shed area with a vacuum cleaner.
28. Mock drill for fire fighting and first aid.

➤ University Sanction Letter



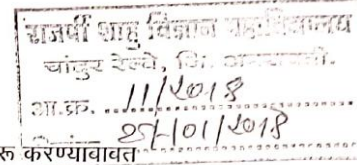
(T) : 2662206, 2662207, 2662208, 2662249, 2662358
GRAM : AMUNI

SANT GADGE BABA
AMRAVATI UNIVERSITY
AMRAVATI – 444602
(M.S.)

FAX NO. 0721-2660949, 2662135
Website : www.sgbau.ac.in

क्र.संगावाअवि/DLLE/५२६/ ८३/२०१७
दिनांक- २७/१२/२०१७

प्रति,
प्राचार्य
राजर्षी शाहू विज्ञान महाविद्यालय
ता.चांदुर रेल्वे जि. अमरावती



विषय :- अल्पकालीन प्रमाणपत्र अभ्यासक्रम सुरु करण्याबाबत
संदर्भ :- १. रा.शा.वि.म२७३/१७ दिनांक ११/९/२०१७
२. विद्यापीठ निदेश क्रमांक ४१/२०१७ दिनांक :- २५-१०-२०१७

महोदय,

उपरोक्त संदर्भाकीत विषयाचे अनुषंगाने कळविण्यात येते की, आपल्या महाविद्यालयाकडून स्वयं-निर्वाही तत्वावर खालील विषयाचे अल्पकालीन प्रमाणपत्र अभ्यासक्रम सुरु करण्याबाबत प्राप्त झालेल्या प्रस्तावाला आजीवन व अध्ययन मंडळाचे दिनांक १०/११/२०१७ रोजी झालेल्या सभेमध्ये मान्यता प्रदान केलेली आहे.

| प्रस्तावित विषय | कालावधी | प्रवेश क्षमता |
|---|----------|---------------|
| १. Certificate Course in Textile Spinning | ३ months | २० |
| २. Certificate Course in Textile Weaving | ३ months | २० |
| ३. Certificate Course in Tally | ३ months | २० |

याबाबत विद्यापीठाने प्रसिध्द केलेल्या निदेश क्रमांक ४१/२०१७ व Prosepectus No २०१७ /CERT/१/११ मध्ये विहित नियम व अटीचे अधिन राहून सदर प्रमाणपत्र अभ्यासक्रम आपल्या महाविद्यालयामध्ये सुरु करण्याबाबतची आवश्यक ती पुढील कार्यवाही करण्यात यावी. विद्यापीठाने तयार केलेली शैक्षणिक नियमिका (Academic Calendar) या सोबत पाठविण्यात येत असून यानुसार विद्यार्थ्यांचे प्रवेश व परिक्षेसंबंधीची कार्यवाही करण्यात यावी. प्रवेशीत विद्यार्थ्यांचे प्रति विद्यार्थी रु. ३५०/- शुल्काराह या विभागास पाठविण्यात यावी त्यानंतरच विद्यार्थ्यांना परीक्षा विभागाद्वारे नामांकन क्रमांक देण्यात येतील. तसेच याबाबत अधिकची चौकशी करावयाची असल्यास hadace@sgbau.ac.in या Email वर संपर्क साधावा, तसेच सदर प्रमाणपत्र अभ्यासक्रमाची अभ्यासक्रमिका (Syllabus) विद्यापीठाच्या www.sgbau.ac.in या संकेतस्थळावर उपलब्ध आहे.

सहपत्र :-
१) शैक्षणिक नियमिका

आपुला
श्रीकांत पाटील
(डा. श्रीकांत पाटील)
संस्थापक
आजीवन अध्ययन व विस्तार विभाग
संत गाडगे बाबा अमरावती विद्यापीठ

➤ **List of Student**


Rajarshee Shahu Science College, Chandur Rly
Certificate Course in Textile Weaving

| Enrolment No. | Full Name of Students | Mothers Name | Date of Birth (As per Leaving Certificate) | Qualifying /Exam | Address | Contact | Remarks |
|---------------|--------------------------------|--------------|--|------------------|-----------------|------------|---------|
| | Mr. Ajay Govindrao Bundele | Maya | 05-05-1981 | S.S.C. | Amravati | 7709705026 | |
| | Mr. Akash Bisanrao Bhagadkar | Asha | 18-10-1997 | H.S.C. | Wadgoan | 9763045059 | |
| | Mr. Akshay Ramesh Bawane | Anita | 20-08-1992 | H.S.C. | Basalapur | 9923453258 | |
| | Mr. Chetan Shrikrushana Mangle | Sangita | 17-08-1999 | H.S.C. | Sawanga Vithoba | | |
| | Mr. Gaurav Keshavrao Sune | Vandana | 17-09-1999 | H.S.C. | Virul Rhohange | 7887597708 | |
| | Mr. Roshan Uttamrao Choudhari | Wanmala | 26-10-1994 | H.S.C. | Sawanga Vithoba | | |
| | Mr. Vinod Krushnarao Hirulkar | Narmada | 12-06-1991 | S.S.C. | Sawanga Vithoba | 7507586848 | |
| | Mr. Gitesh Namderao Ingale | Sindu | 10-08-1987 | H.S.C. | Sai Nagar ,Arvi | 9766687005 | |
| | Mr. Kalpesh Vasudeora Mangale | Savita | 13-03-1999 | S.S.C. | Sawanga Vithoba | | |
| | Mr. Kishor Sureshrao Ghurde | Santabai | 06-07-1993 | H.S.C. | Sawanga Vithoba | | |
| | Mr. Nikesh Subhash Uike | Sangita | 18-08-1993 | H.S.C. | Sawanga Vithoba | | |
| | Mr. Pankaj Sadashiv Hole | Prabhatai | 07-01-1900 | H.S.C. | Sawanga Vithoba | 7767864068 | |
| | Mr. Ramesh Ramesh Tedhe | Gagabai | 12-04-1993 | H.S.C. | Pathergaon | 8698269775 | |
| | Ms. Payal Anil Wasnik | Varsha | 06-10-1992 | H.S.C. | Diggi Mahalle | 9284495541 | |

It is certified that the a foresaid subjects are taught in the college as per grant of approval by the department of lifelong learning and extension .Above students are eligible for enrolment asper the rules prescribed by department of lifelong learning and extension .


IQAC Co-ordinator
Rajarshee Shahu Science College
Chandur Rly., Dist. Amravati




Head
Department of Chemistry
Rajarshee Shahu Science College
Chandur Rly Dist. Amravati.


Principal
Rajarshee Shahu Science College
Chandur Rly Dist. Amravati

➤ Internship Permission Letter

o/c

Atul Vidya Mandir's
Rajarshee Shahu Science College, Chandur Rly
Dist: Amravati (M.S.) 444 904
(College Code : 807)

| | | |
|--|---|---|
| President Prof. Annasaheb Alias Walmikrao Jagtap | Secretary Prof. Virendrabhau Jagtap | Principal Dr. Suresh S. Thakare |
|--|---|---|

Website : www.rssc.edu.in Email : rajarsheeshahucollege@rediffmail.com / rsscprincipal@gmail.com / principal@rssc.edu.in ☎ (Office) : 07222- 254111

Ref. No. ASSC/59/18 Date: 16/02/2018

To,
The D.G.M. Manager (H.R.D.)
VHM Industries Ltd. M.I.D.C., (Textile Zone)
Nandgaon Peth – Amravati.

Subject: Permission for internship (Practical)

Sir,


Our college affiliated to Sant Gadge Baba Amravati University, Amravati is running short term three months “Certificate Course in Textile Weaving “which includes theory and one month internship for its completion. A batch of 14 students has completed their theory course.

Since MOU is between Sant Gadge Baba Amravati University Amravati and your esteemed industry ,university has directed us to depute these students for the cause of internship. With this letter may I request you to adjust these students for the internship and communicate us your further action in this direction .

With regards

Thanking you

Enclosed: List of students (14)


Principal
Principal
Rajarshee Shahu Science College
Chandur Rly, Dist- Amravati

➤ Internal Assessment Record

Rajarshee Shahu Science College Chandur Rly (807)
Certificate Course in Textile Weaving
Internal Assessment for Practical

| Sr. No. | Roll No. | Name of Students | Practical (80) | Field Visit(20) | Record (05) | Viva (05) | Total Marks |
|---------|----------|--------------------------------|----------------|-----------------|-------------|-----------|-------------|
| 1. | 10442 | Mr. Chetan Shrikrushana Mangle | 75 | 10 | 5 | 5 | 95 |
| 2. | 10444 | Mr. Roshan Uttamrao Choudhari | 72 | 10 | 5 | 5 | 92 |
| 3. | 10445 | Mr. Vinod Krushnarao Hirulkar | 75 | 10 | 5 | 5 | 95 |
| 4. | 10446 | Mr. Gitesh Namederao Ingale | 75 | 10 | 5 | 5 | 95 |
| 5. | 10447 | Mr.Kalpesh Vasudeorao Mangale | 75 | 10 | 5 | 5 | 95 |
| 6. | 10448 | Mr.Kishor Sureshrao Ghurde | 75 | 10 | 5 | 5 | 95 |
| 7. | 10449 | Mr.Nikesh Subhash Uike | 76 | 10 | 5 | 5 | 96 |
| 8. | 10450 | Mr.Pankaj Sadashiv Hole | 76 | 10 | 5 | 5 | 96 |
| 9. | 10451 | Mr.Ramesh Ramesh . Tedhe | 75 | 10 | 5 | 5 | 95 |


Coordinator
Certificate course

| Sr. No. | Roll No. | Name of Students | Test (10) | Assignment (10) | Total Marks(20) |
|---------|----------|--------------------------------|-----------|-----------------|-----------------|
| 1. | 10442 | Mr. Chetan Shrikrushana Mangle | 10 | 10 | 20 |
| 2. | 10444 | Mr. Roshan Uttamrao Choudhari | 10 | 10 | 20 |
| 3. | 10445 | Mr. Vinod Krushnarao Hirulkar | 10 | 10 | 20 |
| 4. | 10447 | Mr. Kalpesh Vasudeorao Mangale | 10 | 10 | 20 |
| 5. | 10448 | Mr. Kishor Sureshrao Ghurde | 10 | 10 | 20 |
| 6. | 10449 | Mr. Nikesh Subhash Uike | 10 | 10 | 20 |
| 7. | 10450 | Mr. Pankaj Sadashiv Hole | 10 | 10 | 20 |
| 8. | 10451 | Mr. Ramesh Ramesh . Tedhe | 10 | 10 | 20 |

Rajarshee Shahu Science College Chandur Rly(807)
Certificate Course in Textile Weaving
Internal Assessment for Theory

➤ Marksheet for Course Completion

No.DE 0092798

Sant Gadge Baba  Amravati University

STATEMENT OF MARKS

Name of Exam: CERTIFICATE COURSE IN TEXTILE WEAVING Winter 2018

| ROLL NO | NAME OF THE CANDIDATE | ENROLMENT NO | CENTER CODE | COLLEGE CODE | MEDIUM | CATEGORY | | | |
|-------------------|-------------------------------|-------------------------------|-------------------------|--------------|-----------------------------|-------------------|---------------------|-------|-----------|
| 10445 | Mr. Vinod Krushnarao Hirulkar | 10445 | 807 | 807 | MAR | OBC | | | |
| SUBJECT CODE | SUBJECT | MARKS SCHEME | | | | MARKS OF OBTAINED | | | EXEMPTION |
| | | MAX. THEORY / PRACTICAL MARKS | MAX INTERNAL ASSESSMENT | TOTAL | MIN THEORY / PRACTICAL EXT. | THEORY PRACTICAL | INTERNAL ASSESSMENT | TOTAL | |
| CTWG | Textile Weaving | | | | | | | | |
| | THEORY | 80 | 20 | 100 | 50 | 71 | 20 | 91 | |
| | PRACTICAL | 80 | 20 | 100 | 50 | 70 | 20 | 90 | |
| EXAMS PARTICULARS | | TOTAL MARKS | MARKS OBTAINED | RESULT | | | REMARKS | | GRADE |
| TOTAL | | 200 | 181 | PASS | | | | | 0 |

Shrikrishna
Director
Department of Lifelong Learning &
Sant Gadge Baba Amravati University

Session 2020-21

Certificate Course In Garden Revitalizing Ideal Necessities

➤ Course Brochure



**Certificate Course in
Garden Revitalizing Ideal Necessities**
1st August to 3rd October, 2021

 Indian Rose Federation Affiliated
Amravati Garden Club, Amravati

Organizing Collaboration

 **Shri Shivaji Science College,
Amravati**

 **Shri Shivaji Horticulture College,
Amravati**

Technical Collaboration

 **Vinayak Vidyan Mahavidyalaya,
Nandgaon Kh.**

 **Rajarshee Shahu Science College,
Chandur Railway**

 **Kiran Nursery & Gardens, Amravati**

 **IQAC Co-ordinator
Rajarshee Shahu Science College
Chandur Rly., Dist. Amravati**

 **Principal
Rajarshee Shahu Science College
Chandur Rly. Dist. Amravati**

www.agra.webs.com

➤ **Syllabus & Time Table**

Course Objectives :

- Scientific development of Hobby
- Caring and Artistic Management
- Life cycles of plants
- Prepare and apply Bio-fertilizers
- Cultivation techniques
- Employability Skills
- Propagation method & use of plant hormones



Multiple Entry – Exit Choice

- Each Workshop as an Independent Certificate Course
- One Can Enrol for Complete Course or for single workshop

Course Details :

- Online registrations on official website
- Course Duration- Two Months
- Sessions- Every Sunday from 12:00 noon - 3:00 pm
- Live Virtual Sessions on Zoom
- Assignments submission time - One week- Sunday to Saturday

Key Dates :

- Help Desk- Monday to Saturday from 11:00 am to 5:00 pm
- The deadline for registration 30th July till 6:00pm
- Starting on 1st August 2021
- Ending on 3rd October 2021
- Total 210 Hrs.

Certificate :

- There are two requirements that must be met to get the Garden Revitalizing Ideal Necessities (GRIN) course certificate.
- Assignment Submission in the given timeline
- Class Attendance: 80% or higher for complete course and 100% for Individual workshops.
- Once you have successfully completed these 2 course requirements, you will receive certificate from the website www.agca.webs.com

● **Course Structure :**

- Technical sessions - Scientific Information
- Practical sessions- Hands on Session
- Assignments Declaration
- Continuous and Consistent Evaluation
- No Examination

For Online Payment :

Ac Name: Dinesh Khedkar, Acc.No: 11062322797
 Branch: SBI Gadgenagar; IFSC: SBIN0012011 Micr: 444002102
 Paytm, Google Pay, Phone Pay, UPI at 9423622287
 WHILE TRANSFERRING THE AMOUNT OF FEES PLEASE MENTION IN REMARK / COMMENT AS "GRIN Course Fees"

Fee Structure :

| Category | Complete workshop (Rs) | Individual workshop (Rs) |
|---------------|------------------------|--------------------------|
| Students | 300 | 100 |
| AGC member | 500 | 150 |
| Professionals | 1000 | 200 |

Registration Links :

<https://tinurl.com/GRINCOURSE>

COURSE PATRONS

Prof. C. M. Deshmukh
Ex - President and Advisor
Amravati Garden Club

Dr. G. N. Chaudhari
Principal,
Shri Shivaji Science College,
Amravati

Dr. Alka Bhise
Principal,
Vinayak Vidnyan Mahavidyalaya,
Nandgaon Kh.

Dr. S. S. Thakare
Principal,
Rajarshee Shahu Science College,
Chandur Rly.

Dr. Shashank Deshmukh
Principal,
Shri Shivaji Horticulture College,
Amravati

Shri Subhash Bhawe
Director
Kiran Nursery & Gardens
Amravati

COURSE CONVENERS

Dr. Dinesh Khedkar
President, Amravati Garden Club &
Professor in Botany
Shri Shivaji Science College Amravati

Dr. Rekha Maggirwar
Secretary, Amravati Garden Club &
Associate Professor in Botany
Shri Shivaji Science College Amravati

Dr. Suchita Khodke
Ex- President and Advisor, Amravati Garden Club &
Asst. Professor in Botany,
Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

COURSE COORDINATORS

Dr. Ganesh Hedawoo
Jt. Secretary, Amravati Garden Club &
Asst. Professor in Botany
Shri Shivaji Science College,
Amravati

Dr. Gajendrasingh Pachlore
Exe. Member, Amravati Garden Club &
Asst. Professor in Zoology,
Vinayak Vidnyan Mahavidyalaya,
Nandgaon Kh.

Dr. Umesh Kanerkar
Exe. Member, Amravati Garden Club &
Asst. Professor in Botany,
G. S. Tompe Mahavidyalaya,
Chandur Bz.

Dr. Mayur Gawande
Exe. Member, Amravati Garden Club &
Asst Professor,
Shri Shivaji Horticulture College,
Amravati

Dr. Yugandhara Gulhane
Invited Member, Amravati Garden Club
& Asst. Professor in Botany,
G. S. Tompe Mahavidyalaya,
Chandur Bazar

Dr. Minal Keche
Invited Member, Amravati Garden Club
& Asst. Professor in Botany,
Rajarshee Shahu Science College,
Chandur Rly.

Dr. Monali Ghurde
Invited Member, Amravati Garden Club &
Asst. Professor in Botany,
Vidyabharati Mahavidyalaya,
Amravati

Dr. Sheetal Chitode
Invited Member, Amravati Garden Club &
Asst. Professor,
Shri Shivaji Horticulture College,
Amravati


Amravati Garden Club Certificate Course

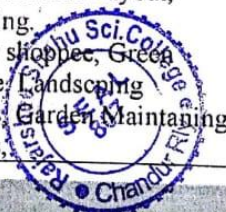
| Sr. No. | Date | Title | Content | Resource person |
|---------|-----------|--|---|---------------------------------------|
| 1. | 1/08/21 | Propagation Techniques for Garden Plants | A. Propagation types: sexual types-Seed propagation- in seed bed, seed pan, polythene bags, polyhouse. B. Vegetative Propagation: By specialized organs, Bulb, Corm, Tuber, Rhizome, Offset, Runner, Bulbil, Sucker. C. Propagation by Cutting, Types of Cutting- Stem and root. D. Propagation by Layering:- Types-Tip, Simple, Compound, Mound, Air E. Propagation by Grafting: Types-Unlatching, Tongue, Whip, Side F. Propagation by Budding- T Budding. | Dr.Suchita Khodke |
| 2. | 8 /08/21 | Blooming Chrysanthemum | Classification, Soil preparation, Propagation Techniques:-Sexual and Vegetative by Sucker and cuts Flowering Management:- Pinching, Budding and disbudding and stacking Marketing: Scope | Dr.Rekha Maggirwar Mr. Anil Bhonde |
| 3. | 15 /08/21 | Bulking Decorative Foliage Plants | Shade/ Sun loving foliage plants:- Coleus, Crotons, Dieffenbachia, Aglaonema, Caladium, Ficus, Palm, Ferns, Alocasia, Colocasia, Plants on moss stick | Dr.Dhanshree Patil, Wengurla |
| 4. | 22 /08/21 | Artistic arrangements | Importance, arrangement making, plant selection and care in Flower arrangement(Fresh& Dry), Terrarium, Fish Garden, Spot training, Floral carpet, Garland, Taira | Dr.Deeepali Taywade, Kolhapur |
| 5. | 29 /08/21 | Art of Bonsai | Introduction, History, Types, Soil mixture, selection of | Dr. Kishor Bobde |

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Chandur Rly., Dist. Amravati

Principal
Rajarshee Shahu Science College
Chandur Rly. Dist. Amravati

| | | | | |
|-----|-----------|---|--|-------------------------------|
| | | | plants and pots. Bonsai Making:-shapping, wiring and maintance. | |
| 6. | 5/ 09/21 | Cultivation of Succulent, Cacti and Adenium | Types, Soil and Water requirement, Pot Selection, Caring, xeric scaping Adenium(Dessert Rose):- Introduction, Types, Soil Mixture, Planting, Grafting. Watering and Maintenance. | Mr.Sanjay Kale |
| 7. | 12/ 09/21 | Creation of Magnificent Seasonal and Hanging Plants | Seasonal: Introduction and concept, Types, Methods of Propagation- Seeds, Tubers, Cuts, fertigation and watering, disease management. Gazania, Pitunia, Zenia, Dianthus, Begonia, Calandula, Pansy, Viola, Hollyhock, Tagetes, Balsum, Impatience. Hanging: Importance, Creative ways, Plant cultivation and care of Oxalis, Baby sunrose, Portulaca, Asperagus, Ferns, Ribbon Grass, Chlorophytum, Sedum variety. | Dr.V.R.Deshmukh |
| 8. | 19/ 09/21 | Interior hard and soft scapping | Necessity Required material, Toxicity emissions, Creations, Maintenance and limitation. | Dr. Pallavi Kulkarni, |
| 9. | 26/ 09/21 | Garden Planning and Management | Verticle, floating Garden:- Making and maintenance creepers and climbers: Concept and Importance, Types and Selection of Plant, Propagation, Planting and care, Supporting system: Pergola, Arch, Moss stick. Topiary | Prof. C.M. Deshmukh |
| 10. | 03/10/21 | Career and entrepreneurship opportunities | Nursery management:- Types, Licence, Demand for planting material, Working tools, Land and Layout, Marketing, Flower shoppee, Green shoppee, Landscaping services, Garden Maintaning services. | Mr. Satish Bramhankar, Mumbai |


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➤ Sample Assignment

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AMRAVATI GARDEN CLUB



HELP GARDENS GROW

Amravati Garden Club, Amravati
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Vinayak Vidyan Mahavidyalaya, Nandgaon Kh. Rajarshree Shahu Science College, Chandur Rly.
With Technical Assistance of Kiran Nursery and Gardens, Amravati
Organizes

Certificate Course in Garden Revitalizing Ideal Necessities (GRIN)
1st August to 3rd October, 2021 on Every Sunday

Love Plants; Save Life

GRIN - Assignment: 1

आपले नाव इंग्रजीत लिहावे, ईतर माहिती मराठी मध्ये देखील भरू शकता.

anmol21086@gmail.com [Switch account](#) 

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* Required

Email *

Your email _____

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Surname *

Your answer _____

Name *

Your answer _____

Middle Name *

Your answer _____

Serial No in List of the Participants *

Your answer _____

Name the technique you followed like Seed / Leaf / Root / Corm/ Grafting / Budding etc of Propagation (आपण वापरलेली पद्धत) *

Your answer _____

Describe the Method (आपण उपयोगात आणलेली पद्धत सांगा) *

Your answer _____

Any Special Experience (आपला विशेष अनुभव) *

Your answer _____

Upload Photo (आपण तयार केलेल्या झाडाचा फोटो अपलोड करा) *

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GRIN - Assignment: 2

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* Required

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Your email _____

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Surname *
Your answer _____

Name *
Your answer _____

Middle Name *
Your answer _____

Serial No in List of the Participants *
Your answer _____

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Name the technique you followed like Seed / Leaf / Root / Corm/ Grafting / Budding etc of Propagation (आपण वापरलेली पद्धत) *
Your answer _____

Describe the Method (आपण उपयोगात आणलेली पद्धत सांगा) *
Your answer _____

Any Special Experience (आपला विशेष अनुभव) *
Your answer _____

Upload Photo (आपण तयार केलेल्या झाडाचा फोटो अपलोड करा) *
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GRIN - Assignment: 3

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Name *

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Middle Name *

Your answer _____

Serial No in List of the Participants *

Your answer _____

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Your answer

Describe the Method (आपण उपयोगात आणलेली पद्धत सांगा) *

Your answer

Any Special Experience (आपला विशेष अनुभव) *

Your answer

Upload Photo (आपण तयार केलेल्या झाडाचा फोटो अपलोड करा) *

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GRIN - Assignment: 4

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Name *

Your answer _____

Middle Name *

Your answer _____

Serial No in List of the Participants *

Your answer _____

Name the technique you followed (आपण वापरलेली पद्धत) *

Your answer _____

Describe the Method (आपण उपयोगात आणलेली पद्धत सांगा) *

Your answer _____

Any Special Experience (आपला विशेष अनुभव) *


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Upload Photo (आपण तयार केलेल्या झाडाचा फोटो अपलोड करा) *

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GRIN - Assignment: 5

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Your answer _____

Middle Name *

Your answer _____

Serial No in List of the Participants *

Your answer _____

Name the technique you followed (आपण वापरलेली पद्धत) *

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Describe the Method (आपण उपयोगात आणलेली पद्धत सांगा) *

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Any Special Experience (आपला विशेष अनुभव) *

Your answer _____

Upload Photo (आपण तयार केलेल्या झाडाचा फोटो अपलोड करा) *

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GRIN - Assignment: 6

आपले नाव इंग्रजीत लिहावे, ईतर माहिती मराठी मध्ये देखील भरू शकता.

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Your answer _____

Name *

Your answer _____

Middle Name *

Your answer _____

Serial No in List of the Participants *

Your answer _____

Name the technique you followed (आपण वापरलेली पद्धत) *

Your answer _____

Describe the Method (आपण उपयोगात आणलेली पद्धत सांगा) *

Your answer _____

Any Special Experience (आपला विशेष अनुभव) *


Your answer _____

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GRIN - Assignment: 7

आपले नाव इंग्रजीत लिहावे, ईतर माहिती मराठी मध्ये देखील भरू शकता.

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Name *

Your answer _____

Middle Name *

Your answer _____

Serial No in List of the Participants *

Your answer _____

Name the technique you followed (आपण वापरलेली पद्धत) *

Your answer

Describe the Method (आपण उपयोगात आणलेली पद्धत सांगा) *

Your answer

Any Special Experience (आपला विशेष अनुभव) *

Your answer

Upload Photo (आपण तयार केलेल्या झाडाचा फोटो अपलोड करा) *

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GRIN - Assignment: 8

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Name *

Your answer _____

Middle Name *

Your answer _____

Serial No in List of the Participants *

Your answer _____

Name the technique you followed (आपण वापरलेली पद्धत) *

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Describe the Method (आपण उपयोगात आणलेली पद्धत सांगा) *


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Any Special Experience (आपला विशेष अनुभव) *

Your answer _____

Upload Photo (आपण तयार केलेल्या झाडाचा फोटो अपलोड करा) *

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AMRAVATI GARDEN CLUB

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GRIN - Assignment: 9

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Surname *

Your answer _____

Name *

Your answer _____

Middle Name *

Your answer _____

Serial No in List of the Participants *

Your answer _____

Name the technique you followed (आपण वापरलेली पद्धत) *

Your answer _____

Describe the Method (आपण उपयोगात आणलेली पद्धत सांगा) *

Your answer _____

Any Special Experience (आपला विशेष अनुभव) *

Your answer _____

Please fill out this field.

Upload Photo (आपण तयार केलेल्या झाडाचा फोटो अपलोड करा) *

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➤ List of Student



Atul Vidya Mandir, Wardha's
Rajarshee Shahu Science College

Virul Road, Chandur Rly, Dist. Amravati PIN - 444 904

(College Code : 807)

(Accredited with 'B' Grade by NAAC)

PRESIDENT
Prof. Mrs. Uttaratai V. Jagtap

SECRETARY
Prof. Virendrabhau W. Jagtap

PRINCIPAL
Dr. Suresh S. Thakare

Website : www.rssc.edu.in | Email : rajarsheeshahucollege@rediffmail.com | rsscprincipal@gmail.com | (Office) 07222-254111

Ref. No.

Date:


Rajarshee Shahu Science College, Chandur Rly

Department of Botany

Certificate Course in Garden Revitalizing Ideal Necessities (2020-21)

List of Students Enrolled for the Course

| Sr. No. | Name of Students |
|---------|-----------------------------|
| 1 | Dhage Harsha Ramesh |
| 2 | Girokar Sakshi Dinesh |
| 3 | Londe Anushka Rajubhau |
| 4 | Patil Shrutika Shyam |
| 5 | Meshram Prachi Ramesh |
| 6 | Samrit Priyanka Shankar |
| 7 | Thakare Achal Ganesh |
| 8 | Belsare Gayatri Vilasrao |
| 9 | Chaudhari Krutika Sunil |
| 10 | Chaudhari Gayatri Dineshrao |
| 11 | Uike Sanjana Subhash |
| 12 | Maskare Ankita Sanjay |
| 13 | Maskare Arpita Sanjay |
| 14 | Wankhade Prapti Prafulla |
| 15 | Dandge Pooja Sudhakar |
| 16 | Jaiswal Shruti Manoj |


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Chandur Rly., Dist. Amravati




Principal
Rajarshee Shahu Science College
Chandur Rly. Dist. Amravati

Criteria I – Curricular Aspects [1.2.1] Academic Flexibility

Rajarshee Shahu Science College, Chandur Rly

GRIN- Certificate Course (1st Augest to 13 October) Result Sheet

| Sr. No. | Record Id | Name of Students | Email-address | Assingn ment No 1 (10) | Assingn ment No 2 (10) | Assingn ment No 3 (10) | Assingn ment No 4 (10) | Assingn ment No 5 (10) | Assingn ment No 6 (10) | Assingn ment No 7 (10) | Assingn ment No 8(10) | Assingn ment No 9 (10) | Total Grade |
|---------|-----------|-----------------------------|-------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-----------------------|------------------------|-------------|
| 1 | GRIN CO1 | DHAGE HARSHA RAMESH | harshadhage@gmail.com | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | A |
| 2 | GRIN CO2 | GIRODKAR SAKSHI DINESH | yogitagirodkar41198@gmail.com | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | A |
| 3 | GRIN CO3 | LONDE ANUSHKA RAJUBHAU | anushka.londe@rssc.edu.in | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | A |
| 4 | GRIN CO4 | PATIL SHRUTIKA SHYAM | shrutika.patil@rssc.edu.in | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | A |
| 5 | GRIN CO5 | MESHARAM PRACHI RAMESH | prachi.meshram@rssc.edu.in | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | A |
| 6 | GRIN CO6 | SAMRIT PRIYANKA SHANKAR | priyanka.samrit@rssc.edu.in | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | A+ |
| 7 | GRIN CO7 | THAKARE ACHAL GANESH | achal.thakare@rssc.edu.in | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | A |
| 8 | GRIN CO8 | BELSARE GAYATRI VILASRAO | gayatri.belsare@rssc.edu.in | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | A |
| 9 | GRIN CO9 | CHAUDHARI KRUTIKA SUNIL | krutika.chaudhari@rssc.edu.in | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | A |
| 10 | GRIN CO10 | CHAUDHARI GAYATRI DINESHRAO | gayatri.chaudhari@rssc.edu.in | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | A |
| 11 | GRIN CO11 | UIKE SANJANA SUBHASH | sanjana.uike@rssc.edu.in | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | A |
| 12 | GRIN CO12 | MASKARE ANKITA SANJAY | ankita.maskare@rssc.edu.in | 10 | 10 | AB | 10 | 10 | 10 | 10 | 10 | 10 | A |
| 13 | GRIN CO13 | MASKARE ARPITA SANJAY | arpita.maskare@rssc.edu.in | 10 | 10 | AB | 10 | 10 | 10 | 10 | 10 | 10 | A |
| 14 | GRIN CO14 | WANKHADE PRAPTI PRAFULL | prapti.wankhade@rssc.edu.in | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | A |
| 15 | GRIN CO15 | DANDGE POOJA SUDHAKAR | dandagepuja@gmail.com | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | A |
| 16 | GRIN CO16 | JAISSWAL SHRUTI MANOJ | shruti.jaiswal@rssc.edu.in | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | A |
| 17 | GRIN Co17 | VAISHNAVI MAHALLE | | 10 | 10 | AB | 10 | 10 | 10 | 10 | 10 | 10 | A |

Attempt all assingment: Good

Presentation Of Assingment: A+, A, B, B+, C

Attendance:75%

Signature: Dr. M.J. Keche
Head

Course Coordinator
Rajarshee Shahu Science College
Chandur Rly., Dist. Amravati.

IQAC Co-ordinator
Rajarshee Shahu Science College
Chandur Rly., Dist. Amravati



Signature: Dr.S.S.Thakare

Principal
Rajarshee Shahu Science College
Chandur Rly Distt. Amravati

➤ Sample Course Completion Certificate

Verifiable Certificate ID: GRIN-C175

Indian Rose Federation Affiliated
AMRAVATI GARDEN CLUB, AMRAVATI
www.agca.webs.com



Certificate

This Certificate is awarded to
SAMRIT PRIYANKA SHANKAR
RAJARSHEE SHAHU SCIENCE COLLEGE, CHANDUR RLY

for successful completion of Online Course In
Garden Revitalizing Ideal Necessities held during 1st Aug. to 3rd Oct., 2021.

As per SWAYAM Regulation 2016, this Online Learning Course satisfies
"Four Quadrant Approach" and participant engagement of 9 Weeks,
including 340 Hrs. of multimedia e-content and assignment for the complete week.
An equivalent weightage of 6 Credits is awarded on 3rd October, 2021.

Co-Organizer

-  Shri Shivaji Science College, Amravati
-  Shri Shivaji Horticulture College, Amravati
-  Vinayak Vidyan Mahavidyalaya, Nandgaon Kh.
-  Rajarshee Shahu Science College, Chandur Railway

Technical Collaboration

-  Kiran Mulsewani & Gardens, Amravati

Principal
Rajarshee Shahu Science College
Chandur Rly. Distt. Amravati

Congratulations


Dr. Dinesh Khedkar
President, Amravati Garden Club


Dr. Rekha Maggirwar
Secretary, Amravati Garden Club



IQAC Co-ordinator
Rajarshee Shahu Science College
Chandur Rly., Distt. Amravati



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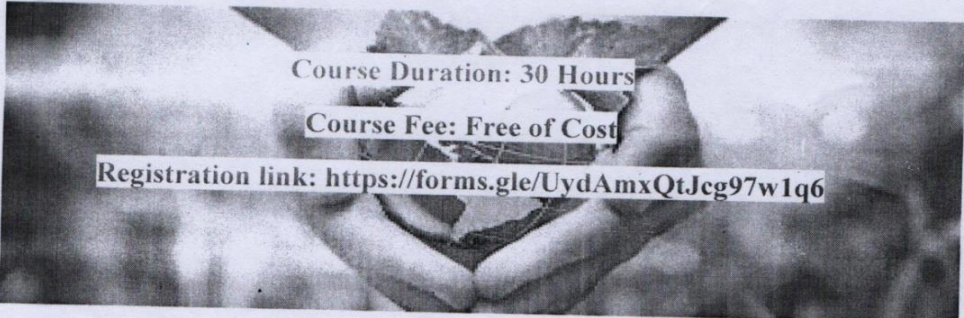
Session 2021-22

Certificate Course in Green Chemistry

➤ Brochure of Course

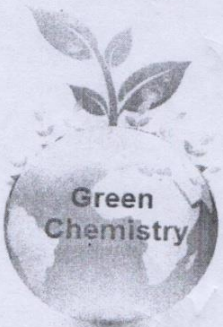
Rajarshee Shahu Science College, Chandur Railway
Department of Chemistry Organizes
Certificate Course in

Green Chemistry



Course Duration: 30 Hours
Course Fee: Free of Cost
Registration link: <https://forms.gle/UydAmxQtJcg97w1q6>

Green Chemistry represents the pillar that holds up our sustainable future. It is imperative to teach the value of green chemistry to tomorrows chemist.




Organizing Committee

| | | | | |
|----------------------------------|---------------------------------|---------------------------------|----------------------------------|-----------------------------|
| Dr A P Thakare Asst Professor | Dr A D Bansod Asst Professor | Dr S S Padhen Asst Professor | Dr M J Keche IQAC Coordinator | Dr S S Thakare Principal |
|----------------------------------|---------------------------------|---------------------------------|----------------------------------|-----------------------------|

Sinakar
Asst Prof
Rajarshee Shahu Science College
Chandur Rly. Dist. Amravati.


ASR
Head
Department of Chemistry
Rajarshee Shahu Science College
Chandur Rly. Dist. Amravati.



[Signature]
IQAC Co-ordinator
Rajarshee Shahu Science College
Chandur Rly., Dist. Amravati.

[Signature]
Principal
Rajarshee Shahu Science College
Chandur Rly. Dist. Amravati.

➤ Proposal of Course



Atul Vidya Mandir, Wardha's
Rajarshee Shahu Science College
Virul Road, Chandur Rly. Dist. Amravati PIN - 444 904
(College Code : 807)
(Accredited with B Grade by NAAC)

PRESIDENT
Prof. Mrs. Uttaratai V. Jagtap

SECRETARY
Prof. Virendrabhau W. Jagtap

PRINCIPAL
Dr. Suresh S. Thakare

Website : www.rssc.edu.in | Email : rajarsheeshahucollege@rediffmail.com | rsscprincipal@gmail.com | (Office) 07222-254111

Ref. No. Date:

PROPOSAL FOR CERTIFICATE COURSE

Title: Green Chemistry
Course Coordinator: Dr. Amol P Thakare
Course Co-Coordinator: Dr. A D Bansod & Dr. S P Padhen
Contact details: Mobile 9665745488
Email id: amol.thakare@rssc.edu.in
Department: Chemistry
Duration of the Course 30 Hrs

Scope of the Course: Pollution is one of our major enemies today. Land, water, air – mankind has disrupted the natural eco-system with the irresponsible use and disposal of chemical laden waste, making the environment perilous. Green Chemistry enforces the substitution of dangerous chemical ingredients used in industrial manufacturing, with green materials. Decrease in the amount of chemicals released into the air and water leads to lesser toxic environment for workers and healthier conditions for people to thrive in. Additionally, end products also become less harmful and more organic. If companies start applying the concepts of Green Chemistry, it will help them slash costs immediately and increase profits. Reduced usage of unnecessary chemicals, fewer synthetic steps, lesser amount of waste and end of the pipe treatment, allow for higher yields, faster manufacturing and increased capacity, resulting in lower costs and higher profits. Green Chemistry certificate course encourages students in the field to think out of the box and ideate ways to replace materials that have been used in a particular chemical process for decades. These breakthroughs pave the way to creativity and resourcefulness in chemistry. The course is designed to introduce this board field of study.

Head
Department of Chemistry
Rajarshee Shahu Science College
Chandur Rly. Dist. Amravati

IAAC Co-ordinator
Rajarshee Shahu Science College
Chandur Rly. Dist. Amravati

Course fee: Free of Cost

Note: some theory classes will be held during regular days.

Syllabus

Theory (20Hrs)

Unit I: INTRODUCTION TO GREEN CHEMISTRY (5 Hr)

Green chemistry and its significance- Difference between conventional chemistry and green chemistry techniques - twelve principles of green chemistry - atom economy - prevention and recycling of byproducts - limitations of green chemical techniques.

Unit II: Microwave Assisted Synthesis (5 Hr)

Microwave activation, advantage of microwave exposure, specific effects of microwave, Neat reactions, solid supports reactions, Functional group transformations, condensations reactions, oxidations, reductions reactions, multi-component reactions.

Unit III: Catalysis (5 Hr)

Fundamental of catalysis, Principles of homogeneous, heterogeneous and bio-catalysis, catalytic properties and its application.

Unit IV: GREEN SYNTHESIS TECHNIQUES (5 Hr)

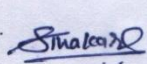
Green solvents, - Synthesis involving basic principles of green chemistry - synthesis of styrene, urethane, paracetamol, and ibuprofen. Microwave assisted reactions fries rearrangement, Hydrolysis of toluene, Diels Alder Reaction and synthesis of chalcone. Biochemical Oxidation Reaction.

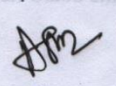
Practical (10 Hrs)

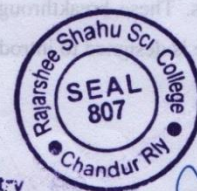
- 1) Green synthesis of acetanilide from aniline.
- 2) Green synthesis of dibenzalpropanone from benzaldehyde.
- 3) Synthesis of dihydropyrimidinone by green concept.


REFERENCE BOOKS

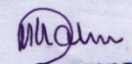
1. New Trends in Green Chemistry - V.K. Ahluwalia & M.R. Kidwai, Anamalaya Publishers.
2. An Introduction to Green Chemistry - V.Kumar Vishal Publishing Co.,
3. Green Chemistry- Stanley E. Manahan


Asst Prof Department of Chemistry
Rajarshee Shahu Science College
Chandur Rly, Dist. Amravati



Head
Rajarshee Shahu Science College
Chandur Rly, Dist. Amravati


Rajarshee Shahu Science College
Chandur Rly, Dist. Amravati


IQAC Co-ordinator
Rajarshee Shahu Science College
Chandur Rly, Dist. Amravati


Principal
Rajarshee Shahu Science College
Chandur Rly, Dist. Amravati

➤ List of Student



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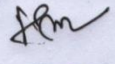
PRINCIPAL
Dr. Suresh S. Thakare

Website : www.rssc.edu.in | Email : rajarsheeshahucollege@rediffmail.com | rsscprincipal@gmail.com | ☎ (Office) 07222-254111


Ref. No.
Date:

Department of Chemistry
Certificate Course in Green Chemistry (2021-22)
List of Students Enrolled for Course

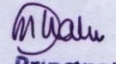
| Sr No. | Name of Students | Class |
|--------|----------------------|-----------|
| 1 | Achal M Chirade | B.Sc. III |
| 2 | Nikita Ambadkar | B.Sc. III |
| 3 | Vaishnavi S Ingole | B.Sc. III |
| 4 | Gayatri G Sambhe | B.Sc. III |
| 5 | Sharayu R Kshirsagar | B.Sc. III |
| 6 | Chaitali P Darokar | B.Sc. III |
| 7 | Pallavi P Darokar | B.Sc. III |
| 8 | Lajari D Pakade | B.Sc. III |
| 9 | Arpita S Maskare | B.Sc. III |
| 10 | Ankita S Maskare | B.Sc. III |
| 11 | Ankita R Pokale | B.Sc. III |
| 12 | Rinku K Dahake | B.Sc. III |
| 13 | Shrutika S Patil | B.Sc. III |
| 14 | Anushka R Londe | B.Sc. III |
| 15 | Gayatri Girokar | B.Sc. III |
| 16 | Sakshi Girokar | B.Sc. III |
| 17 | Harsha Dhage | B.Sc. III |
| 18 | Gayatri Chaudhary | B.Sc. III |
| 19 | Gayatri Belsare | B.Sc. III |



Head
 Department of Chemistry
 Asst Prof Rajarshee Shahu Science College
 Chandur Rly. Dist. Amravati



IQAC Co-ordinator
 Rajarshee Shahu Science College
 Chandur Rly., Dist. Amravati



Principal
 Rajarshee Shahu Science College
 Chandur Rly. Distt. Amravati

Registration Form for Course

2/7/23, 4:13 PM

Certificate Course in Green Chemistry (Registration Form)

Certificate Course in Green Chemistry (Registration Form)

Department of Chemistry, Rajarshee Shahu Science College, Chandur Railway (2021-22)

1. Full Name of Student

2. Name of Mother

3. Mobile Number (Whats app)

4. Class

Mark only one oval.

BSc I

BSc II

BSc III

5. Group

Mark only one oval.

CBZ

PCM

➤ Question Paper

2/7/23, 4:12 PM

Certificate Course in Green Chemistry Examination

Certificate Course in Green Chemistry Examination

Rajarshee Shahu Science College, Chandur Rly

Department of Chemistry

Duration of Exam: 1 Hr

Total Marks: 50

Note: This test consist of 25 questions carrying 2 marks each. Each Question is compulsory.

*Required

1. Name of Student *

2. Class *

Mark only one oval.

B.Sc I

B.Sc II

B.Sc III

3. Group *

Mark only one oval.

CBZ

PCM

2/7/23, 4:12 PM

Certificate Course in Green Chemistry Examination

4. 1. Green chemistry also called..... 2 points

Mark only one oval.

- a. Life chemistry
- b. Environmental chemistry
- c. Organic chemistry
- d. Sustainable chemistry

5. 2. Green chemistry is the process to design chemical reaction in... 2 points

Mark only one oval.

- a. Environment friendly manner
- b. Industrial friendly manner
- c. Hazardous manner
- d. All of the above

6. 3. Many beneficial chemicals such as pharmaceutical, agricultural chemicals, and various plastics are obtained by.... 2 points

Mark only one oval.

- a. Physical process
- b. Chemical process
- c. Environmental process
- d. Biological process

2/7/23, 4:12 PM

Certificate Course in Green Chemistry Examination

7. 4.The term “green chemistry”was introduced by..... 2 points

Mark only one oval.

- a. Rachel carlson
 b. Paul. T. Anastas
 c. Marteel
 d. Livio Desimone ,Treaty

8. 5. Which of the following is the greenest solvent 2 points

Mark only one oval.

- a. Formaldehyde
 b. Benzene
 c. Ethanol
 d. Water

9. 6.The principles of Green chemistry include the eliminating the..... 2 points

treatments.

Mark only one oval.

- a. Costly
 b. Harmful
 c. Hard.
 d. Easy

2/7/23, 4:12 PM

Certificate Course in Green Chemistry Examination

10. 7. One of the principles of Green chemistry says that to produce... goods 2 points

Mark only one oval.

- a. Harmful
- b. Commercial
- c. Safer.
- d. Most used

11. 8. We must use feedstock derived from annually renewable resources or from 2 points

Mark only one oval.

- a. chemicals
- b. Organic compound
- c. abundant waste
- d. Plants

12. 9. Green chemistry reduces the use of... 2 points

Mark only one oval.

- a. Liquid fuels
- b. Energy
- c. Gaseous fuels
- d. Solid fuels

2/7/23, 4:12 PM

Certificate Course in Green Chemistry Examination

13. 10. According to the green chemistry, the chemical involved in the production must be... 2 points

Mark only one oval.

- a. Non-toxic
 b. Highly toxic
 c. Toxic
 d. Produces the toxic by products

14. 11. Which of the following is not one of the twelve principles of Green chemistry? 2 points

Mark only one oval.

- a. Using renewable feed stock
 b. Designing safer chemicals and products
 c. Maximizing atom economy
 d. Avoiding the use of catalyst

15. 12. **How does a catalyst increase the rate of a reaction?** 2 points

Mark only one oval.

- a. By forming an intermediate complex
 b. By increasing activation energy
 c. By lowering the activation energy
 d. By changing equilibrium constant

2/7/23, 4:12 PM

Certificate Course in Green Chemistry Examination

16. 13. Which of the following is known as Lindlar's catalyst? 2 points

Mark only one oval.

- (a) Na in liquid NH₃
 (b) Pt in ethanol
 (c) Pd with BaSO₄
 (d) Ni in ethanol

17. 14. Which of the following is changed in a chemical reaction due to a catalyst? 2 points

Mark only one oval.

- (a) Internal energy
 (b) Entropy
 (c) Enthalpy
 (d) Activation energy

18. 15. Which of the following is a greener route to produce ethanal commercially? 2 points

Mark only one oval.

- a) Catalytic cracking of ethanol
 b) Oxidation of ethene with an ionic catalyst
 c) Steam reforming of methanol
 d) Dehydrogenation of ethylene

2/7/23, 4:12 PM

Certificate Course in Green Chemistry Examination

19. 16. Which of the following gas was traditionally used to bleach paper? 2 points

Mark only one oval.

- a) Sulfur
 b) Carbon dioxide
 c) Chlorine
 d) Fluorine

20. 17. Microwave assisted reaction operates at a frequency of..... 2 points

Mark only one oval.

- a. 3 GHz
 b. 2.45 GHz
 c. 1m
 d. 3mm

21. 18. Ultrasound assisted reactions generally occurs in the range of..... 2 points

Mark only one oval.

- a. 20 Hz to 20 KHz
 b. Less than 20 Hz
 c. 20 KHz to 10 GHz
 d. More than 10 Ghz

2/7/23, 4:12 PM

Certificate Course in Green Chemistry Examination

22. 19. Michael Addition can be carried out in presence of which green solvent? 2 points

Mark only one oval.

- a. Methanol
 b. Acetone
 c. Water
 d. None

23. 20. In paterno Buchi reaction, carbonyl compounds react with alkenes to give..... 2 points

Mark only one oval.

- a. Oxirane
 b. Oxetane
 c. Oxazole
 d. Thiazole

24. 21. Which of the following is green reagent used for methylation reaction. 2 points

Mark only one oval.

- a. Methyl halide
 b. Dimethyl carbonate
 c. DMS
 d. All of these

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Certificate Course in Green Chemistry Examination

25. 22. The volatile and water soluble organic solvents are responsible for which type of pollution . 2 points

Mark only one oval.

- a. Air
 b. Water
 c. Soil
 d. all of these

26. 23. In aqueous medium when ultrasound waves are transmitted it creates.....and.....waves 2 points

Mark only one oval.

- a. Refraction and reflection
 b. Rarefaction and compression
 c. Rarefaction and refraction
 d. Compression and reflection

27. 24. Microwave dielectric heating works with.....&..... mechanism. 2 points

Mark only one oval.

- a. Ionicconduction&electronpolarization.
 b. Electronpolarization&dipolarpolarization
 c. Dipolarpolarization&ionicconduction
 d. Both a & c

2/7/23, 4:12 PM

Certificate Course in Green Chemistry Examination

28. 25. Green chemistry applies across the..... of a chemical product like design, manufacture and 2 points

Use.

Mark only one oval.

- a. Life cycle
- b. Uses
- c. Properties
- d. Efficiency

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➤ Attendance of Students

Rajarshee Shahu Science College, Chandur Railway
 Department of Chemistry
 Certificate Course in Green Chemistry (2021-22)
 Students Attendance

| Sr No | Name of Students | Dates & Sign | | | | | | | | | | | | | |
|-------|-------------------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | 20-04-22 | 21-04-22 | 22-04-22 | 23-04-22 | 24-04-22 | 25-04-22 | 26-04-22 | 27-04-22 | 28-04-22 | 29-04-22 | 30-04-22 | 02-05-22 | 04-05-22 | 05-05-22 |
| 1 | Ms Achal M Chirade | AChirade | AChirade | AChirade | AChirade | AChirade | AChirade | AChirade | AChirade | AChirade | AChirade | AChirade | AChirade | AChirade | AChirade |
| 2 | Ms Nikita Ambadkar | NAmbadkar | NAmbadkar | NAmbadkar | NAmbadkar | NAmbadkar | NAmbadkar | NAmbadkar | NAmbadkar | NAmbadkar | NAmbadkar | NAmbadkar | NAmbadkar | NAmbadkar | NAmbadkar |
| 3 | Ms Vaishnavi S Ingole | VIingole | VIingole | VIingole | VIingole | VIingole | VIingole | VIingole | VIingole | VIingole | VIingole | VIingole | VIingole | VIingole | VIingole |
| 4 | Ms Gayatri G Sambhe | GSambhe | GSambhe | GSambhe | GSambhe | GSambhe | GSambhe | GSambhe | GSambhe | GSambhe | GSambhe | GSambhe | GSambhe | GSambhe | GSambhe |
| 5 | Ms Sharayu R Kshirsagar | SKshirsagar | SKshirsagar | SKshirsagar | SKshirsagar | SKshirsagar | SKshirsagar | SKshirsagar | SKshirsagar | SKshirsagar | SKshirsagar | SKshirsagar | SKshirsagar | SKshirsagar | SKshirsagar |
| 6 | Ms Chaitali P Darokar | CDarokar | CDarokar | CDarokar | CDarokar | CDarokar | CDarokar | CDarokar | CDarokar | CDarokar | CDarokar | CDarokar | CDarokar | CDarokar | CDarokar |
| 7 | Ms Pallavi P Darokar | PDarokar | PDarokar | PDarokar | PDarokar | PDarokar | PDarokar | PDarokar | PDarokar | PDarokar | PDarokar | PDarokar | PDarokar | PDarokar | PDarokar |
| 8 | Ms Lajari D Pakade | LPakade | LPakade | LPakade | LPakade | LPakade | LPakade | LPakade | LPakade | LPakade | LPakade | LPakade | LPakade | LPakade | LPakade |
| 9 | Ms Arpita S Maskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare |
| 10 | Ms Ankita S Maskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare | ASMaskare |
| 11 | Ms Ankita R Pokale | APokale | APokale | APokale | APokale | APokale | APokale | APokale | APokale | APokale | APokale | APokale | APokale | APokale | APokale |
| 12 | Ms Rinku K Dahake | RDahake | RDahake | RDahake | RDahake | RDahake | RDahake | RDahake | RDahake | RDahake | RDahake | RDahake | RDahake | RDahake | RDahake |
| 13 | Ms Shrutika S Patil | SPatil | SPatil | SPatil | SPatil | SPatil | SPatil | SPatil | SPatil | SPatil | SPatil | SPatil | SPatil | SPatil | SPatil |
| 14 | Ms Anushka R Londe | ALonde | ALonde | ALonde | ALonde | ALonde | ALonde | ALonde | ALonde | ALonde | ALonde | ALonde | ALonde | ALonde | ALonde |
| 15 | Ms Gayatri Girokhar | GGirokhar | GGirokhar | GGirokhar | GGirokhar | GGirokhar | GGirokhar | GGirokhar | GGirokhar | GGirokhar | GGirokhar | GGirokhar | GGirokhar | GGirokhar | GGirokhar |
| 16 | Ms Sakshi Girokhar | SGirokhar | SGirokhar | SGirokhar | SGirokhar | SGirokhar | SGirokhar | SGirokhar | SGirokhar | SGirokhar | SGirokhar | SGirokhar | SGirokhar | SGirokhar | SGirokhar |
| 17 | Ms Harsha Dhage | HDhage | HDhage | HDhage | HDhage | HDhage | HDhage | HDhage | HDhage | HDhage | HDhage | HDhage | HDhage | HDhage | HDhage |
| 18 | Ms Gayatri Chaudhary | GChaudhary | GChaudhary | GChaudhary | GChaudhary | GChaudhary | GChaudhary | GChaudhary | GChaudhary | GChaudhary | GChaudhary | GChaudhary | GChaudhary | GChaudhary | GChaudhary |
| 19 | Ms Gayatri Belsare | GBelsare | GBelsare | GBelsare | GBelsare | GBelsare | GBelsare | GBelsare | GBelsare | GBelsare | GBelsare | GBelsare | GBelsare | GBelsare | GBelsare |

[Signature]
 Asst. Prof
 Rajarshee Shahu Science College
 Chandur Rly, D. stt. Amravati

[Signature]
 Head
 Department of Chemistry
 Rajarshee Shahu Science College
 Chandur Rly Dist. Amravati.



[Signature]
 IQAC Co-ordinator
 Rajarshee Shahu Science College
 Chandur Rly, Dist. Amravati

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Students Attendance

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| | | 04-05-22 | 07-05-22 | 09-05-22 | 10-05-22 | 11-05-22 | 12-05-22 | 13-05-22 | 16-05-22 | 17-05-22 | 18-05-22 | 19-05-22 | 20-05-22 | 21-05-22 |
| 1 | Ms Achal M Chirade | <i>Achal M Chirade</i> | <i>Achal M Chirade</i> | <i>Achal M Chirade</i> | <i>Achal M Chirade</i> | <i>Achal M Chirade</i> | <i>Achal M Chirade</i> | <i>Achal M Chirade</i> | <i>Achal M Chirade</i> | <i>Achal M Chirade</i> | <i>Achal M Chirade</i> | <i>Achal M Chirade</i> | <i>Achal M Chirade</i> | <i>Achal M Chirade</i> |
| 2 | Ms Nikita Ambadkar | <i>Nikita Ambadkar</i> | <i>Nikita Ambadkar</i> | <i>Nikita Ambadkar</i> | <i>Nikita Ambadkar</i> | <i>Nikita Ambadkar</i> | <i>Nikita Ambadkar</i> | <i>Nikita Ambadkar</i> | <i>Nikita Ambadkar</i> | <i>Nikita Ambadkar</i> | <i>Nikita Ambadkar</i> | <i>Nikita Ambadkar</i> | <i>Nikita Ambadkar</i> | <i>Nikita Ambadkar</i> |
| 3 | Ms Vaishnavi S Ingole | <i>Vaishnavi S Ingole</i> | <i>Vaishnavi S Ingole</i> | <i>Vaishnavi S Ingole</i> | <i>Vaishnavi S Ingole</i> | <i>Vaishnavi S Ingole</i> | <i>Vaishnavi S Ingole</i> | <i>Vaishnavi S Ingole</i> | <i>Vaishnavi S Ingole</i> | <i>Vaishnavi S Ingole</i> | <i>Vaishnavi S Ingole</i> | <i>Vaishnavi S Ingole</i> | <i>Vaishnavi S Ingole</i> | <i>Vaishnavi S Ingole</i> |
| 4 | Ms Gayatri G Sambhe | <i>Gayatri G Sambhe</i> | <i>Gayatri G Sambhe</i> | <i>Gayatri G Sambhe</i> | <i>Gayatri G Sambhe</i> | <i>Gayatri G Sambhe</i> | <i>Gayatri G Sambhe</i> | <i>Gayatri G Sambhe</i> | <i>Gayatri G Sambhe</i> | <i>Gayatri G Sambhe</i> | <i>Gayatri G Sambhe</i> | <i>Gayatri G Sambhe</i> | <i>Gayatri G Sambhe</i> | <i>Gayatri G Sambhe</i> |
| 5 | Ms Sharayu R Kshirsagar | <i>Sharayu R Kshirsagar</i> | <i>Sharayu R Kshirsagar</i> | <i>Sharayu R Kshirsagar</i> | <i>Sharayu R Kshirsagar</i> | <i>Sharayu R Kshirsagar</i> | <i>Sharayu R Kshirsagar</i> | <i>Sharayu R Kshirsagar</i> | <i>Sharayu R Kshirsagar</i> | <i>Sharayu R Kshirsagar</i> | <i>Sharayu R Kshirsagar</i> | <i>Sharayu R Kshirsagar</i> | <i>Sharayu R Kshirsagar</i> | <i>Sharayu R Kshirsagar</i> |
| 6 | Ms Chaitali P Darokar | <i>Chaitali P Darokar</i> | <i>Chaitali P Darokar</i> | <i>Chaitali P Darokar</i> | <i>Chaitali P Darokar</i> | <i>Chaitali P Darokar</i> | <i>Chaitali P Darokar</i> | <i>Chaitali P Darokar</i> | <i>Chaitali P Darokar</i> | <i>Chaitali P Darokar</i> | <i>Chaitali P Darokar</i> | <i>Chaitali P Darokar</i> | <i>Chaitali P Darokar</i> | <i>Chaitali P Darokar</i> |
| 7 | Ms Pallavi P Darokar | <i>Pallavi P Darokar</i> | <i>Pallavi P Darokar</i> | <i>Pallavi P Darokar</i> | <i>Pallavi P Darokar</i> | <i>Pallavi P Darokar</i> | <i>Pallavi P Darokar</i> | <i>Pallavi P Darokar</i> | <i>Pallavi P Darokar</i> | <i>Pallavi P Darokar</i> | <i>Pallavi P Darokar</i> | <i>Pallavi P Darokar</i> | <i>Pallavi P Darokar</i> | <i>Pallavi P Darokar</i> |
| 8 | Ms Lajari D Pakade | <i>Lajari D Pakade</i> | <i>Lajari D Pakade</i> | <i>Lajari D Pakade</i> | <i>Lajari D Pakade</i> | <i>Lajari D Pakade</i> | <i>Lajari D Pakade</i> | <i>Lajari D Pakade</i> | <i>Lajari D Pakade</i> | <i>Lajari D Pakade</i> | <i>Lajari D Pakade</i> | <i>Lajari D Pakade</i> | <i>Lajari D Pakade</i> | <i>Lajari D Pakade</i> |
| 9 | Ms Arpita S Maskare | <i>Arpita S Maskare</i> | <i>Arpita S Maskare</i> | <i>Arpita S Maskare</i> | <i>Arpita S Maskare</i> | <i>Arpita S Maskare</i> | <i>Arpita S Maskare</i> | <i>Arpita S Maskare</i> | <i>Arpita S Maskare</i> | <i>Arpita S Maskare</i> | <i>Arpita S Maskare</i> | <i>Arpita S Maskare</i> | <i>Arpita S Maskare</i> | <i>Arpita S Maskare</i> |
| 10 | Ms Ankita S Maskare | <i>Ankita S Maskare</i> | <i>Ankita S Maskare</i> | <i>Ankita S Maskare</i> | <i>Ankita S Maskare</i> | <i>Ankita S Maskare</i> | <i>Ankita S Maskare</i> | <i>Ankita S Maskare</i> | <i>Ankita S Maskare</i> | <i>Ankita S Maskare</i> | <i>Ankita S Maskare</i> | <i>Ankita S Maskare</i> | <i>Ankita S Maskare</i> | <i>Ankita S Maskare</i> |
| 11 | Ms Ankita R Pokale | <i>Ankita R Pokale</i> | <i>Ankita R Pokale</i> | <i>Ankita R Pokale</i> | <i>Ankita R Pokale</i> | <i>Ankita R Pokale</i> | <i>Ankita R Pokale</i> | <i>Ankita R Pokale</i> | <i>Ankita R Pokale</i> | <i>Ankita R Pokale</i> | <i>Ankita R Pokale</i> | <i>Ankita R Pokale</i> | <i>Ankita R Pokale</i> | <i>Ankita R Pokale</i> |
| 12 | Ms Rinku K Dahake | <i>Rinku K Dahake</i> | <i>Rinku K Dahake</i> | <i>Rinku K Dahake</i> | <i>Rinku K Dahake</i> | <i>Rinku K Dahake</i> | <i>Rinku K Dahake</i> | <i>Rinku K Dahake</i> | <i>Rinku K Dahake</i> | <i>Rinku K Dahake</i> | <i>Rinku K Dahake</i> | <i>Rinku K Dahake</i> | <i>Rinku K Dahake</i> | <i>Rinku K Dahake</i> |
| 13 | Ms Shrutika S Patil | <i>Shrutika S Patil</i> | <i>Shrutika S Patil</i> | <i>Shrutika S Patil</i> | <i>Shrutika S Patil</i> | <i>Shrutika S Patil</i> | <i>Shrutika S Patil</i> | <i>Shrutika S Patil</i> | <i>Shrutika S Patil</i> | <i>Shrutika S Patil</i> | <i>Shrutika S Patil</i> | <i>Shrutika S Patil</i> | <i>Shrutika S Patil</i> | <i>Shrutika S Patil</i> |
| 14 | Ms Anushka R Londe | <i>Anushka R Londe</i> | <i>Anushka R Londe</i> | <i>Anushka R Londe</i> | <i>Anushka R Londe</i> | <i>Anushka R Londe</i> | <i>Anushka R Londe</i> | <i>Anushka R Londe</i> | <i>Anushka R Londe</i> | <i>Anushka R Londe</i> | <i>Anushka R Londe</i> | <i>Anushka R Londe</i> | <i>Anushka R Londe</i> | <i>Anushka R Londe</i> |
| 15 | Ms Gayatri Giroolkar | <i>Gayatri Giroolkar</i> | <i>Gayatri Giroolkar</i> | <i>Gayatri Giroolkar</i> | <i>Gayatri Giroolkar</i> | <i>Gayatri Giroolkar</i> | <i>Gayatri Giroolkar</i> | <i>Gayatri Giroolkar</i> | <i>Gayatri Giroolkar</i> | <i>Gayatri Giroolkar</i> | <i>Gayatri Giroolkar</i> | <i>Gayatri Giroolkar</i> | <i>Gayatri Giroolkar</i> | <i>Gayatri Giroolkar</i> |
| 16 | Ms Sakshi Giroolkar | <i>Sakshi Giroolkar</i> | <i>Sakshi Giroolkar</i> | <i>Sakshi Giroolkar</i> | <i>Sakshi Giroolkar</i> | <i>Sakshi Giroolkar</i> | <i>Sakshi Giroolkar</i> | <i>Sakshi Giroolkar</i> | <i>Sakshi Giroolkar</i> | <i>Sakshi Giroolkar</i> | <i>Sakshi Giroolkar</i> | <i>Sakshi Giroolkar</i> | <i>Sakshi Giroolkar</i> | <i>Sakshi Giroolkar</i> |
| 17 | Ms Harsha Dhage | <i>Harsha Dhage</i> | <i>Harsha Dhage</i> | <i>Harsha Dhage</i> | <i>Harsha Dhage</i> | <i>Harsha Dhage</i> | <i>Harsha Dhage</i> | <i>Harsha Dhage</i> | <i>Harsha Dhage</i> | <i>Harsha Dhage</i> | <i>Harsha Dhage</i> | <i>Harsha Dhage</i> | <i>Harsha Dhage</i> | <i>Harsha Dhage</i> |
| 18 | Ms Gayatri Chaudhary | <i>Gayatri Chaudhary</i> | <i>Gayatri Chaudhary</i> | <i>Gayatri Chaudhary</i> | <i>Gayatri Chaudhary</i> | <i>Gayatri Chaudhary</i> | <i>Gayatri Chaudhary</i> | <i>Gayatri Chaudhary</i> | <i>Gayatri Chaudhary</i> | <i>Gayatri Chaudhary</i> | <i>Gayatri Chaudhary</i> | <i>Gayatri Chaudhary</i> | <i>Gayatri Chaudhary</i> | <i>Gayatri Chaudhary</i> |
| 19 | Ms Gayatri Belsare | <i>Gayatri Belsare</i> | <i>Gayatri Belsare</i> | <i>Gayatri Belsare</i> | <i>Gayatri Belsare</i> | <i>Gayatri Belsare</i> | <i>Gayatri Belsare</i> | <i>Gayatri Belsare</i> | <i>Gayatri Belsare</i> | <i>Gayatri Belsare</i> | <i>Gayatri Belsare</i> | <i>Gayatri Belsare</i> | <i>Gayatri Belsare</i> | <i>Gayatri Belsare</i> |

Swati D
Asst Prof
Rajarshee Shahu Science College
Chandur Rly, Dist. Amravati

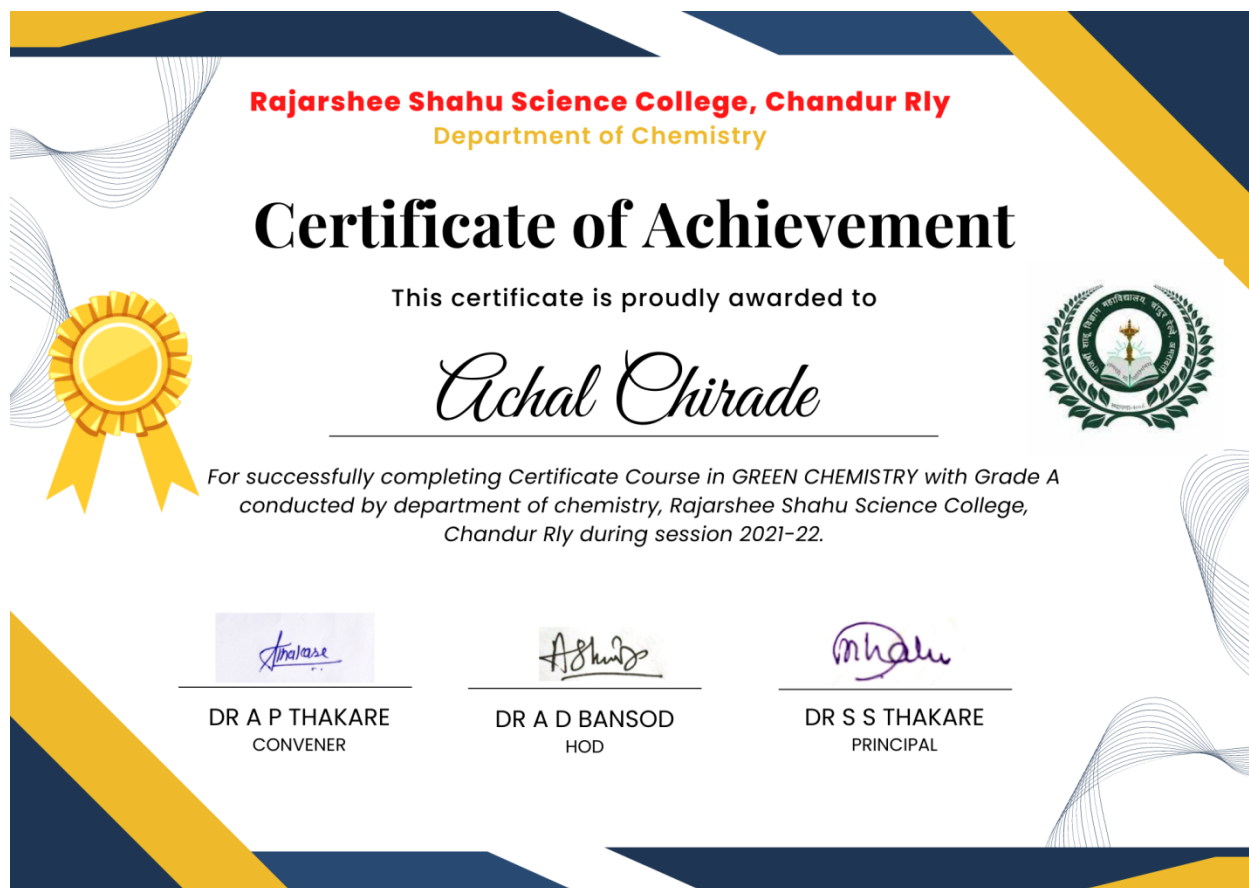
Head
Head
Department of Chemistry
Rajarshee Shahu Science College
Chandur Rly, Dist. Amravati.



IQAC Co-ordinator
IQAC Co-ordinator
Rajarshee Shahu Science College
Chandur Rly, Dist. Amravati

Principal
Principal
Rajarshee Shahu Science College
Chandur Rly, Dist. Amravati

➤ Sample Course Completion Certificate

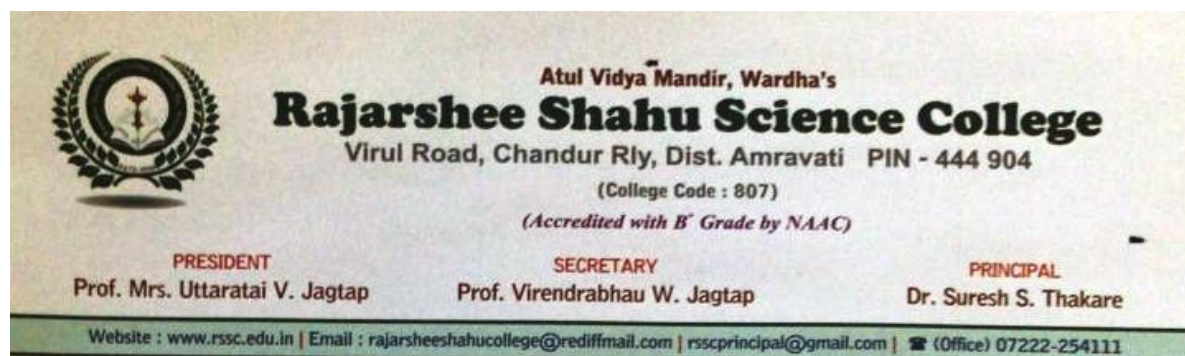


Certificate Course in Biofertilizer Production

➤ Brochure for Course



➤ Permission Letter



Atul Vidya Mandir, Wardha's
Rajarshee Shahu Science College
Virul Road, Chandur Rly, Dist. Amravati PIN - 444 904
(College Code : 807)
(Accredited with B⁺ Grade by NAAC)

PRESIDENT
Prof. Mrs. Uttaratai V. Jagtap

SECRETARY
Prof. Virendrabhau W. Jagtap

PRINCIPAL
Dr. Suresh S. Thakare

Website : www.rssc.edu.in | Email : rajarsheeshahucollege@rediffmail.com | rsscprincipal@gmail.com | ☎ (Office) 07222-254111

Ref. No. RSSC/101/A/2021 Date: 12/07/2021

To,
Dr. Minal J. Keche
Head & Asst. Prof.
Department of Botany
Rajarshee Shahu Science College, Chandur Rly

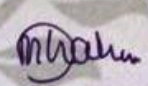
Subject: Approval to the certificate course (3 Months)

Ref.: Your application dated 29-06-2021.

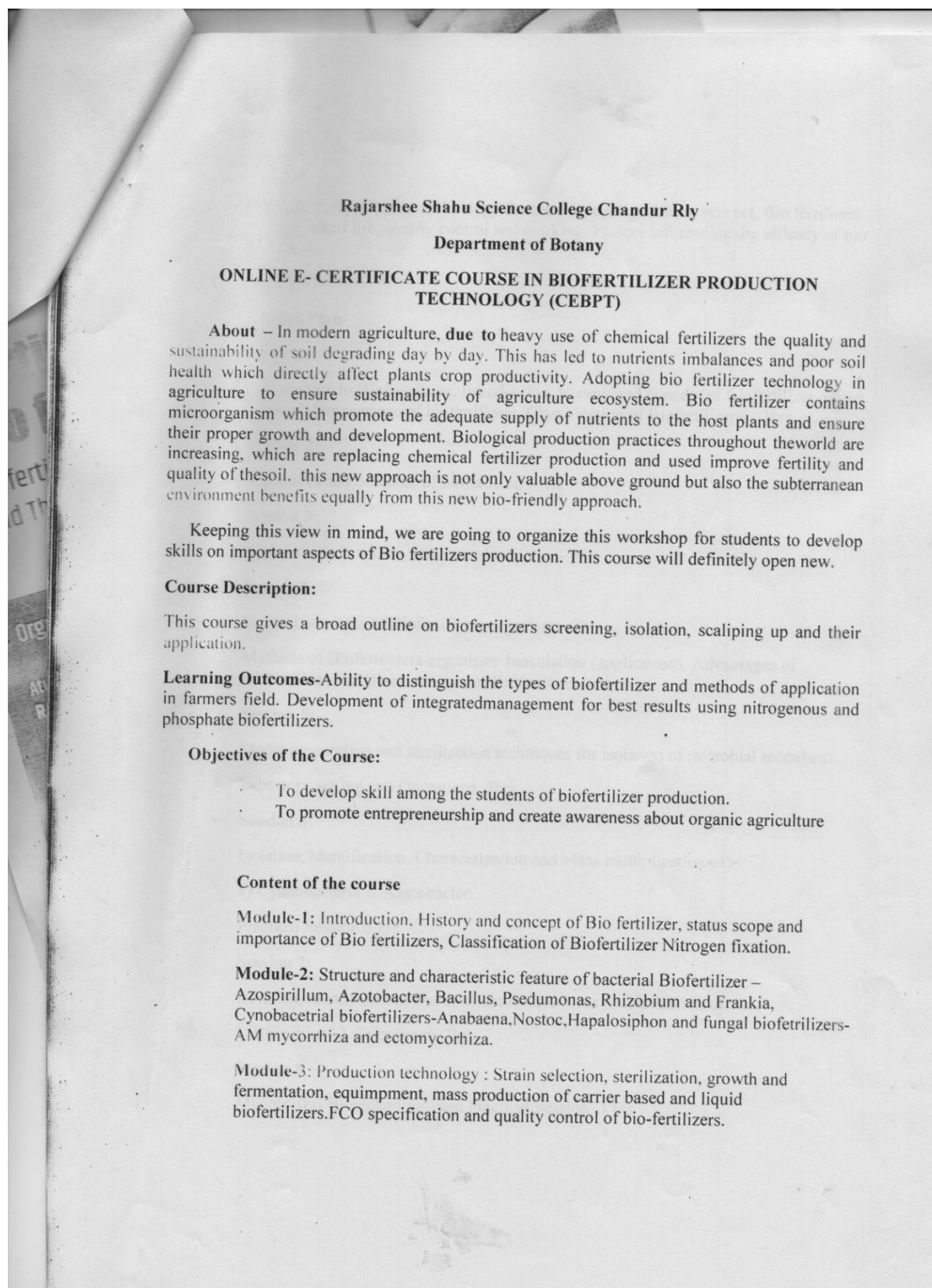
With reference to your application for the approval of CDC for three months certificate course entitled "Garden Revitalizing Ideal Necessities", I am pleased to inform you that the course contents prepared by you to run the aforesaid certificate course are approved after discussion in the meeting of College Development Committee held on 10-07-2021 under the item No. 02.

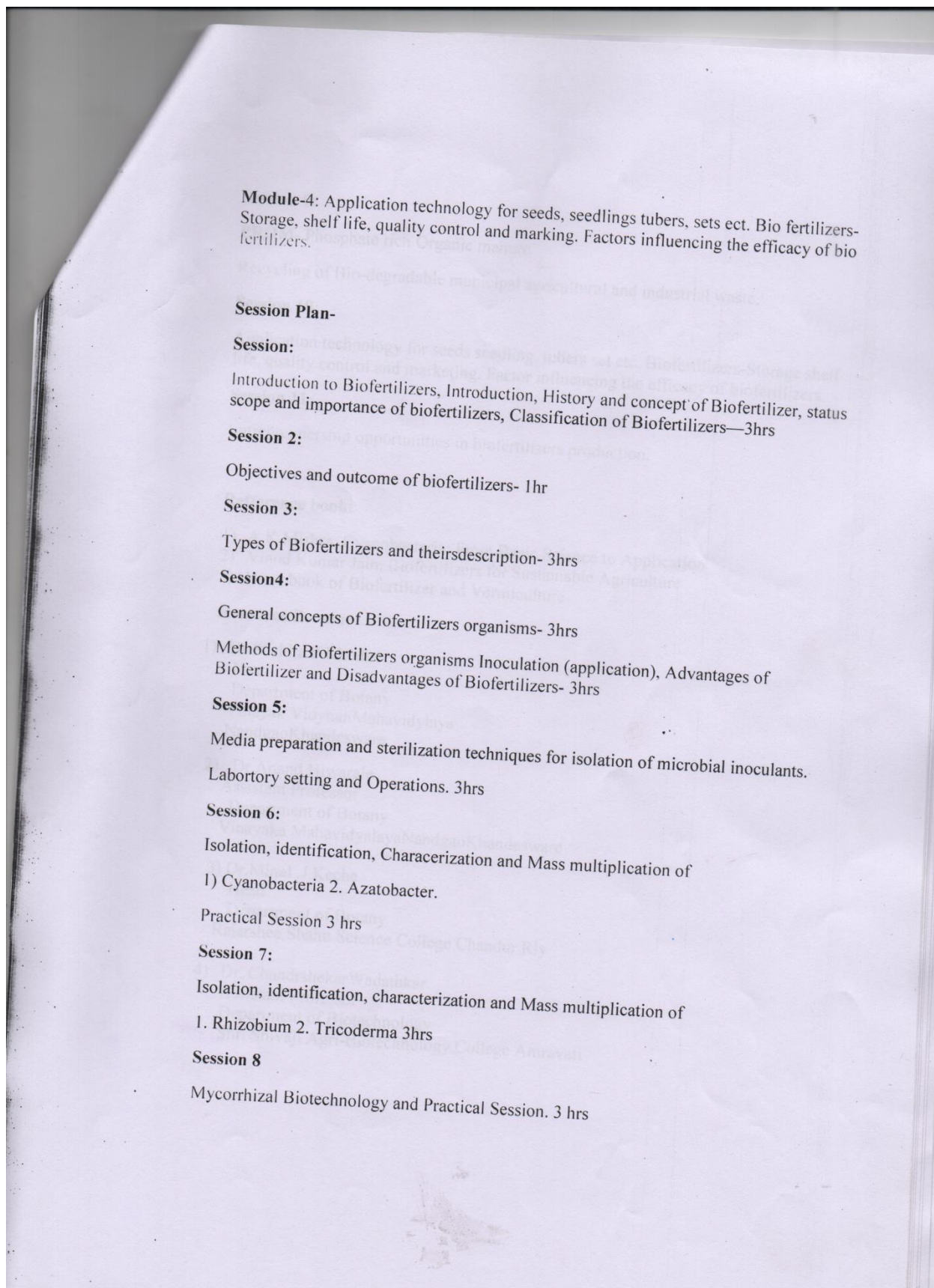
You are now advised to arrange the smooth running of the said course in the benefit of our students.

Copy to
✓ Coordinator, IQAC.


Principal
Rajarshee Shahu Science College
Chandur Rly, Distt. Amravati

➤ Syllabus of Course





Session 9:

PROM- Phosphate rich Organic manure

Recycling of Bio-degradable municipal agricultural and industrial waste.

Session 10:

Application technology for seeds seedling, tubers set etc. Biofertilizers-Storage shelf life, quality control and marketing. Factor influencing the efficacy of biofertilizers.

Session 11:

Entrepreneurship opportunities in biofertilizers production.

Reference book:

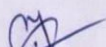
- 1) A.K.Mishra, Cyanobacteria: From Basic Science to Application
- 2) Vinod Kumar Jain, Biofertilizers for Sustainable Agriculture
- 3) Hand book of Biofertilizer and Vermiculture

Resource Person:

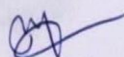
- 1) Dr.Suchita P Khodke
Head
Department of Botany
Vinayak VidyanMahavidylaya
NandgaoKhandesware
- 2) Dr.Anand Hiwarale
Assistant Professor
Department of Botany
Vinayaka MahavidyalayaNandgaoKhandesware
- 3) Dr.Minal .J.Keche
Head
Department of Botany
Rajarshee Shahu Science College Chandur Rly
- 4) Dr. ChandrshekarWadathkar
Assistant Professor
Department of Biotechnology
Shri Shivaji Agri-Biotechnology College Amravati

➤ List of Student

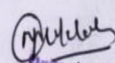
| Timestamp | Email address | Score | Name | Email Address | Class | Name of Institute | Name of Town |
|--------------------|------------------------|-------|--------------------------------|-----------------------------|----------|-----------------------|-------------------|
| 5-16-2022 2:57:14 | gayatri.girokar@rssc.e | 0 | Ku. Gayatri Shankarrao Girokar | gayatri.girokar@rssc.e | B.Sc-III | Rajarshee Shahu Scie | Chandur railway |
| 5-16-2022 2:59:22 | gayatri.chaudhari@rssi | 0 | Gayatri Dineshrao Chaudhari | gayatrichaudhari@rssc | B.Sc-III | Rajshree Shahu Scien | Jawara |
| 5-16-2022 3:00:36 | monika.jagtap@rssc.e | 0 | Monika sudhir jagtap | monika.jagtap@rssc.e | B.Sc-I | Rajeshree shahu scien | Chandur railway |
| 5-16-2022 3:02:47 | sakshi.girokar@rssc.e | 0 | Sakshi Dinesh Girokar | yogitagirokar41198@c | B.Sc-III | Rajarshee shahu scien | Chandur railway |
| 5-16-2022 3:21:11 | vaishnavi.mahalle@rse | 0 | Vaishnavi santosh mahalle | vaishnavi.mahalle@rse | B.Sc-II | Rajarshee shahu scien | Chandur Railway |
| 5-16-2022 3:34:47 | tanisha.wankhade@rse | 0 | Tanisha jayantrao Wankhade | tanishawankhade686@ | B.Sc-II | Rssc chandur rly | Chandur Railway |
| 5-16-2022 3:36:15 | harsha.dhage@rssc.ec | 0 | Harsha Ramesh dhage | harshadhage@rssc.ed | B.Sc-III | Rajarshee shahu scie | Chandur rly |
| 5-16-2022 3:43:06 | achal.thakare@rssc.ec | 0 | Achal Ganesh Thakare | achal.thakare@rssc.ec | B.Sc-II | Rajarshee Shahu Scie | Chandur railway |
| 5-16-2022 3:44:03 | achal.thakare@rssc.ec | 0 | Achal Ganesh Thakare | achal.thakare@rssc.ec | B.Sc-II | Rajarshee Shahu Scie | Chandur railway |
| 5-16-2022 3:52:03 | vaishnavi.panchabudd | 0 | Ku. Vaishnavi Gajanan Panchab | vaishnavi.panchabudd | B.Sc-II | Rajarshee shavu scien | Anjanvati |
| 5-16-2022 4:02:27 | priyanka.samrit@rssc. | 0 | Ku.priyanka shankar samrit | priyanka.samrit@rssc. | B.Sc-II | Rajarshee Shahu Scie | Chandur Rly |
| 5-16-2022 4:03:33 | prapti.wankhade@rssc | 0 | Prapti prafull wankhade | prapti.wankhade@rssc.edu.in | | Rajarshee shahu scien | Chandur railway |
| 5-16-2022 5:39:17 | gayatri.belsare@rssc.e | 0 | Gayatri Vilasrao Belsare | gayatri.belsare@rssc.e | B.Sc-III | Rajarshee shahu scien | At. Tuljapur |
| 5-16-2022 7:05:35 | gauri.sandhekar@rssc | 0 | Gauri P. Sandhekar | gauri.sandhekar@rssc | B.Sc-I | Rajarshee shahu scie | Chandur Rly |
| 5-16-2022 7:21:57 | shivam.nistane@rssc.e | 0 | Shivam Sandiprao Nistane | shivam.nistane@rssc.e | B.Sc-I | Rajarshee Shahu Scie | Tonglabad |
| 5-16-2022 7:47:35 | vanshika.deole@rssc.e | 0 | Vanshika Deole | vanshika.deole@rssc.e | B.Sc-I | Rajarshe shahu scienc | Chandur Railway |
| 5-16-2022 7:51:14 | divya.varhekar@rssc.e | 0 | Divya narayan varhekar | divya.varhekar@rssc.e | B.Sc-I | Rajarshee shahu scie | Chandur Rly |
| 5-16-2022 8:45:20 | ram.parekar@rssc.edu | 0 | Ram anil parekar | ram.parekar@rssc.edu | B.Sc-I | Rajarshee shahu scie | Chandur railway |
| 5-16-2022 9:29:23 | anuja.ingole@rssc.edu | 0 | Anuja suresh ingole | anuja.ingole@rssc.edu | B.Sc-I | Rajarshee shahu scien | Basalapur |
| 5-16-2022 10:57:04 | rizashafi.rehman@rssc | 0 | Riza Danish sayyed | rizashafi.rehman@rssc | B.Sc-I | Rajshree sahu science | Dhamangao Railway |


Head

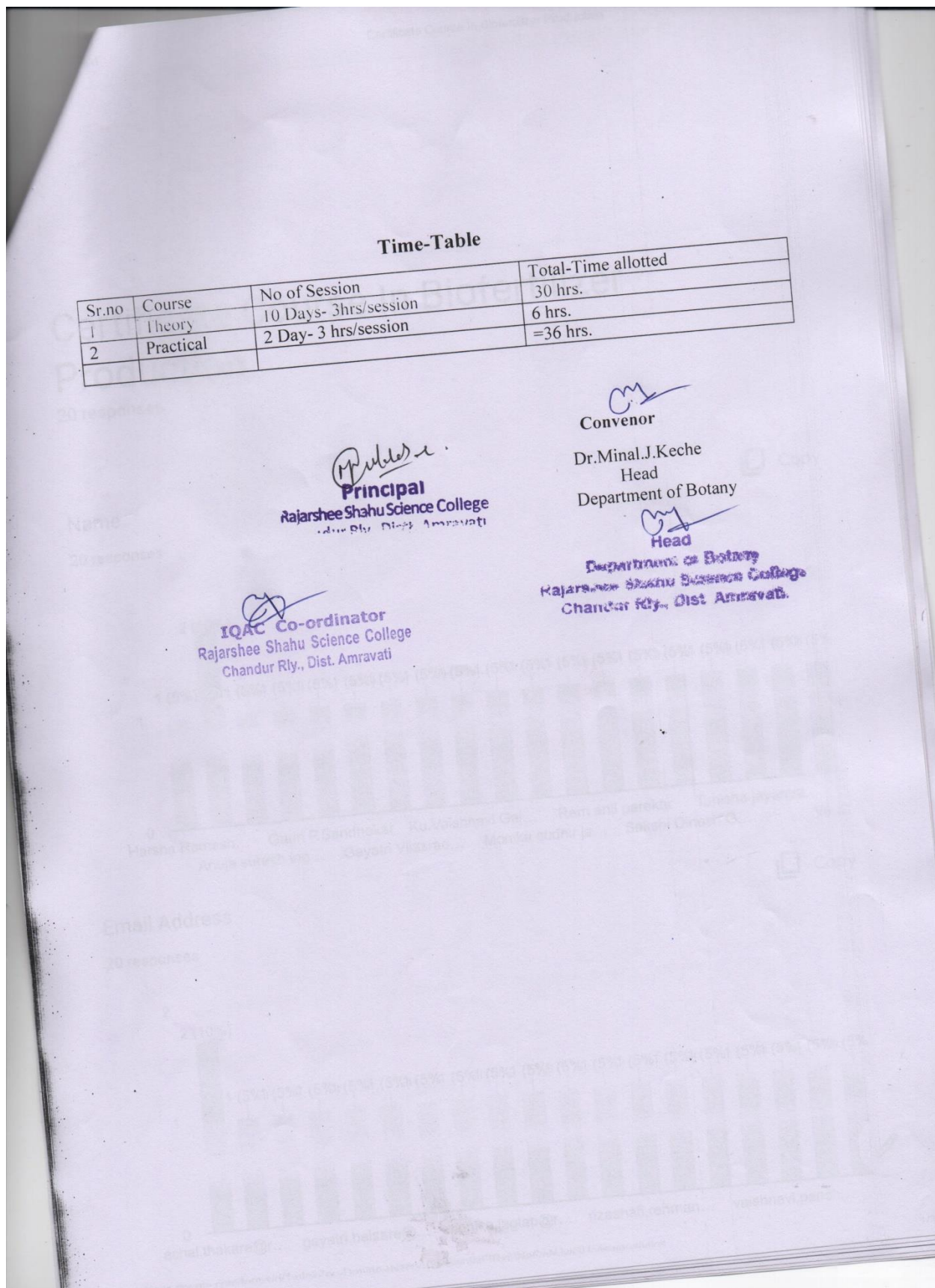
Department of Botany
Rajarshee Shahu Science College
Chandur Rly, Dist. Amravati



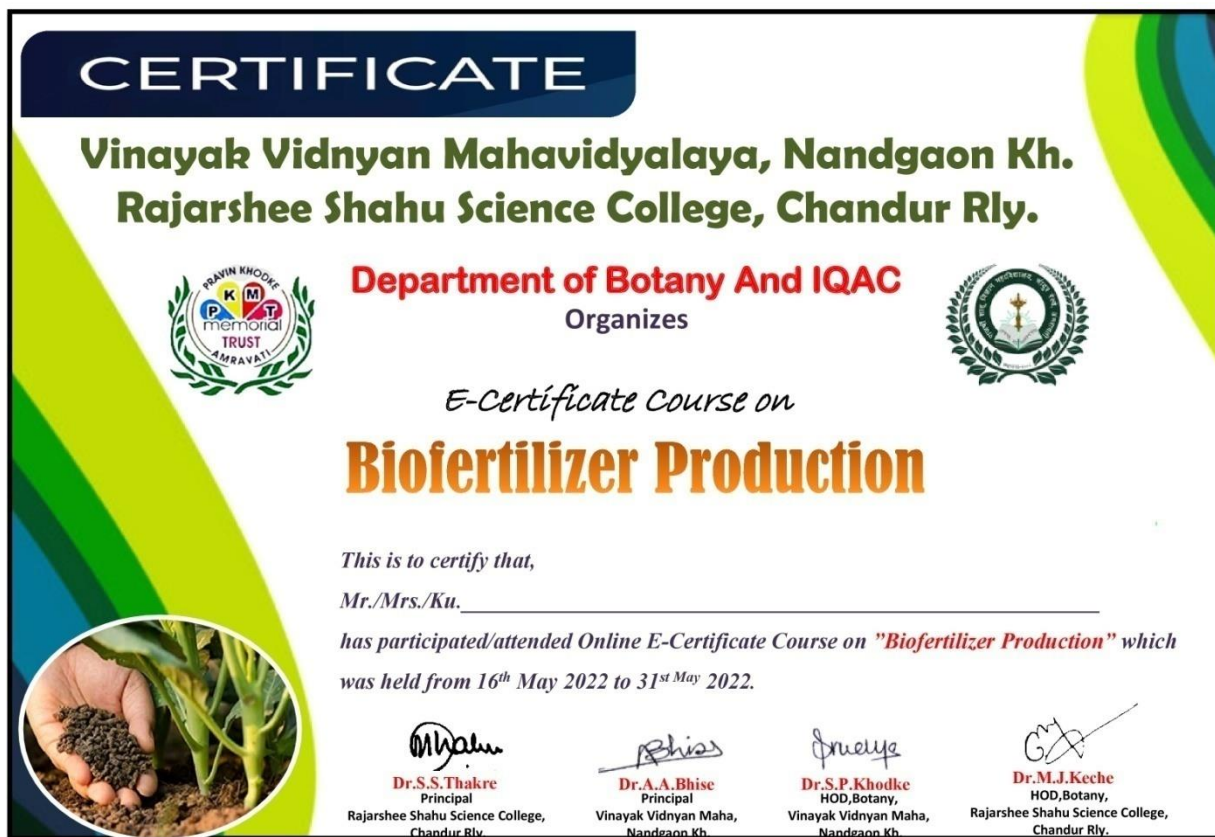
IQAC Co-ordinator
Rajarshee Shahu Science College
Chandur Rly, Dist. Amravati


Principal

Rajarshee Shahu Science College
Chandur Rly, Dist. Amravati



➤ Sample Course Completion Certificate



➤ Attendance of Student

Attendance Sheet
 Online Certificate Course on Biofertilizers Production Technology
 Department of Botany
 15th May to 25th May 2022

| Sr No | Name of Student | 16th | 17th | 18th | 19th | 20th | 21th | 22th | 23th | 24 th | 25th | 26th |
|-------|-----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------------|--------------|--------------|
| 1 | Ku. Gayatri Shankarrao Girolkar | G. D. G. | G. D. G. | G. D. G. | G. D. G. | G. D. G. | G. D. G. | G. D. G. | G. D. G. | G. D. G. | G. D. G. | G. D. G. |
| 2 | Gayatri Dineshrao Chaudhari | G. D. G. | G. D. G. | G. D. G. | G. D. G. | G. D. G. | G. D. G. | G. D. G. | G. D. G. | G. D. G. | G. D. G. | G. D. G. |
| 3 | Monika sudhir jagtap | M. S. Jagtap | M. S. Jagtap | M. S. Jagtap | M. S. Jagtap | M. S. Jagtap | M. S. Jagtap | M. S. Jagtap | M. S. Jagtap | M. S. Jagtap | M. S. Jagtap | M. S. Jagtap |
| 4 | Sakshi Dinesh Girolkar | S. D. G. | S. D. G. | S. D. G. | S. D. G. | S. D. G. | S. D. G. | S. D. G. | S. D. G. | S. D. G. | S. D. G. | S. D. G. |
| 5 | Vaishnavi santoshmahalle | V. S. M. | V. S. M. | V. S. M. | V. S. M. | V. S. M. | V. S. M. | V. S. M. | V. S. M. | V. S. M. | V. S. M. | V. S. M. |
| 6 | Tanisha jayantrao Wankhade | T. W. | T. W. | T. W. | T. W. | T. W. | T. W. | T. W. | T. W. | T. W. | T. W. | T. W. |
| 7 | Harsha Ramesh dhage | H. D. | H. D. | H. D. | H. D. | H. D. | H. D. | H. D. | H. D. | H. D. | H. D. | H. D. |
| 8 | Achal Ganesh Thakare | A. G. | A. G. | A. G. | A. G. | A. G. | A. G. | A. G. | A. G. | A. G. | A. G. | A. G. |
| 9 | Achal Ganesh Thakare | A. G. | A. G. | A. G. | A. G. | A. G. | A. G. | A. G. | A. G. | A. G. | A. G. | A. G. |
| 10 | Ku. Vaishnavi Gajanan Panchabudhe | V. P. | V. P. | V. P. | V. P. | V. P. | V. P. | V. P. | V. P. | V. P. | V. P. | V. P. |
| 11 | Ku. priyankashankars amrit | P. A. | P. A. | P. A. | P. A. | P. A. | P. A. | P. A. | P. A. | P. A. | P. A. | P. A. |
| 12 | Prapti prafullwankhade | P. W. | P. W. | P. W. | P. W. | P. W. | P. W. | P. W. | P. W. | P. W. | P. W. | P. W. |
| 13 | Gayatri Vilasrao | G. V. B. | G. V. B. | G. V. B. | G. V. B. | G. V. B. | G. V. B. | G. V. B. | G. V. B. | G. V. B. | G. V. B. | G. V. B. |

