

# SHRI SHIVAJI COLLEGE OF ARTS, COMMERCE AND SCIENCE, AKOLA

## DEPARTMENTAL PROFILE

1. Name of Department : BOTANY

2. Year of Establishment UG : 1967  
PG : 1993  
Ph. D. : 2000

3. Details of Teaching faculty :

Sr. No.	Name of Faculty member	Qualification	Designation
1	<b>Dr. Pratiksha P. Umale (Kokate)</b>	M. Sc., M. Phil., Ph. D.	Professor & HOD
2	<b>Dr. Deepak K. Koche</b>	M. Sc., NET, Ph. D.	Professor
3	<b>Dr. Vaishali S. Patil</b>	M. Sc., Ph. D.	Professor
4	<b>Mr. Nikhil B. Chaukhande</b>	M. Sc. NET	Assistant Professor
5	<b>Dr. Anand V. Oke</b>	M. Sc., B.Ed., Ph. D.	Assistant Professor
6	<b>Mr. Subham A. Rathod</b>	M. Sc. NET	Assistant Professor
7	<b>Dr. Rasika N. Patil</b>	M. Sc., B.Ed., Ph. D.	Assistant Professor
8	<b>Ms. Isha S. Nagwanshi</b>	M.Sc. (Botany)	Assistant Professor (Adhoc)
9	<b>Mr. Gopal. N. Dhobale</b>	M.Sc. (Botany), GATE, B.Ed.	Assistant Professor (Adhoc)
10	<b>Mr. Nilesh S. Sonone</b>	M.Sc. (Botany)	Assistant Professor (Adhoc)
11	<b>Ms. Bushra Anjum Shaikh Saleem</b>	M.Sc. (Botany)	Assistant Professor (Adhoc)

<b>Faculty Positions (2017):</b>	<b>Sanctioned: 11</b>	<b>Filled: 07</b>
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4. Details of administrative/ Technical Staff:

Sr. No.	Name	Qualification	Designation
1	Mr. V. D. Dhotre	B. A.	Lab Attendant
2	Mr. V. V. Nakat	SSC	Lab Attendant

3	Mr. V. S. Gawande	SSC	Lab Attendant
4	Mr. B. L. Solanke	SSC	Peon

### 5. Students Profile of the Programs (2020-21)

Course	Male	Female	Total	Gender ratio
B. Sc.	204	370	574	1: 1.8
M. Sc.	06	45	51	2 : 15
Ph. D.	4	6	10	4:6
Ph. D. Course work	1	2	3	1:2

### 6. Success rate of each program (comparative):

Course	2016-17	2017-18	2018-19	2019-20	2020-21
B. Sc.	78.24%	77.78%	76.26%	78.41%	99.81%
M. Sc.	94.11%	87.06%	85.00%	79.38%	98.91%

- The success rate of Undergraduate classes is very good as compare to cumulative results of University in the subject.
- The success rate of Post graduate classes is high with sizable number of University rank holders.
- The drop out rate of PG is zero.

### 7. Learning resources available in the Department:

- Separate laboratories for Undergraduate and Post graduate classes.
- Department have Seven desktop computers with Internet facilities. Each faculty member has personal laptops.
- Departmental library is well equipped with more than 550 text books, reference books, journal issues and student's projects.
- Department have well maintained Botanical Garden with variety of medicinal & ornamental plants.
- Department have a small vermicompost unit.

- Department have Museum of fossil and botanical specimen along with Seed bank.
- Department have good herbarium collection as a live resource for students reference.
- Department have well developed research Lab and Plant Tissue culture Lab for Ph.D. Students.
- A seminar hall with smart board and LCD facility for student's disposal.
- Technical information displayed in the form of QR code on plants through **"Talking Tree App"**.

#### **8. Enhancement of learning resources during last five years:**

- UG and PG laboratories were furnished as per needs.
- Few new instruments like, UV- visible spectrophotometer and Incubator is made available.
- Wi-Fi internet facility
- Seminar hall with smart board facility.
- More than 200 titles added in Departmental library.
- Drinking water facility was availed for students in the Department.

#### **9. Details of conferences/ Seminars/ symposia / workshops organized by the Department (Since 2015-16):**

- One day Regional workshop on Preparation of Bio-fertilizers"- Funded by IQAC, Shri Shivaji College of Arts commerce and Science, Akola (MS)- Dated 13<sup>th</sup> January 2018. [The event was organized for PG students and Farmers in collaboration of Dr. Panjabrao Deshmukh Krishi Vidyapith, Akola]
- "Vegetable exhibition" for students on dated 18<sup>th</sup> September 2018.
- One day workshop on "Bonsai Making" for PG students, dated 21<sup>st</sup> January 2019.
- **"Every flower is a soul blossoming in nature"** .... Keeping this in our spirits our Department organized Flower Exhibition on the occasion of 121 the Birth Anniversary of Dr. Punjabrao alias Bhausaheb Deshmukh on dated **15<sup>th</sup> of January 2020**.
- Inter- University Poster competition for UG and PG students of Biological Sciences, organized by Department on dated 05/02/2019. [ The event was funded under UGC- CPE grant]
- "Online Test Series: A Nationwide Approach" a series of online tests for Post Graduate and Post PG students of Life Sciences organized by Department from 8<sup>th</sup> May to 10<sup>th</sup> May 2020.
- Webinar Series on Preparation for Competitive Exams in Life Sciences (26/05/2020 to 31/05/2020) organized by Department.

- International E-Conference on Innovative Research Trends in Life Sciences Organized by Department of Life Sciences. (3rd, 4th & 5th December 2020)
- World Wetland Day Celebration 2021 Interuniversity “Wetland Photography Competition” Organized by Department in collaboration with IQAC on dated 2<sup>nd</sup> February 2021.
- Virtual Value Based Program 21/02/2021 Time - 4 to 5 PM organized by Department of Botany in collaboration with Woman Doctors Wing Akola, IMA
- One Day Virtual Work Shop on Organic Fertilizers: A Miracle of Nature Organizing by Department of Botany and IQAC on dated 31/08/2021.
- A Virtual Guest Lecture on the occasion of World Ozone Day Organized by Department of Botany & IQAC on dated 16<sup>th</sup> September 2021.
- Virtual seminar competition organized by Department in collaboration with Shri Shivaji Science College, Amravati & Mycological Society of India on the occasion of “World Fungus Day” Celebration of Fungal Awareness Week 27<sup>th</sup> Sep to 2<sup>nd</sup> Oct 2021
- Inauguration of Botanical Association, Induction Program, Guest lectures of eminent persona in the field, plantation in college campus, felicitation of meritorious students are among the routine practices of the Department.

#### **10. Research activities:**

##### **A] Research Supervisors in the Department: 03**

- Dr. Pratiksha P. Umale (Kokate)
- Dr. Deepak K. Koche
- Dr. Vaishali S. Patil

##### **B] Number of Ph. D. Awardee produced by the Department:**

<b>Sr. No.</b>	<b>Name of students</b>	<b>Supervisor</b>	<b>Year of award</b>
1	Mr. M. B. Bobade	Dr. E. V. Upadhye	2006
2	Ms. P. S. Kokate	Dr. E. V. Upadhye	2007
3	Mr. P. N. Pawade	Dr. S. P. Rothe	2009
4	Mr. D. G. Bhadange	Dr. E. V. Upadhye	2011
5	Mr. Nafees Iqbal	Dr. S. S. Suradkar	2011
6	Ms. R. P. Shirsat	Dr. S. S. Suradkar	2013
7	Mr. Manoj Kakpure	Dr. S. P. Rothe	2013
8	Mr. Mohnish Bokhad	Dr. S. P. Rothe	2013

9	Ms. K. V. Kothale	Dr. S. P. Rothe	2013
10	Ms. Megha Naise	Dr. D. G. Bhadange	2014
11	Mr. Suraj Sharma	Dr. D. G. Bhadange	2014
12	Ms. Sujata Shende	Dr. D. G. Bhadange	2014
13	Ms. Swati Pundkar	Dr. P. S. Kokate	2015
14	Mr. Nitin Khandare	Dr. D. G. Bhadange	2015
15	Mr. Ajay Jadhav	Dr. D. G. Bhadange	2015
16	Mr. Syed Imran	Dr. S. S. Suradkar	2016
17	Ms. Kanchan Thorat	Dr. P. S. Kokate	2016
18	Ms. P. J. Deshmukh	Dr. D. G. Bhadange	2016
19	Mr. A. A. Maheshwari	Dr. S. P. Rothe	2018
20	Mr. S. B. Chavan	Dr. D. K. Koche	2018
21	Ms. J. M. Jasutkar	Dr. D. K. Koche	2018
22	Ms. Suchita Dighe	Dr. P. S. Kokate	2018
23	Ms. Rashika Patil	Dr. S. P. Rothe	2019
24	Ms. Rakhi Deshmukh	Dr. P. S. Kokate	2019
25	Ms. Deepali Wankhade	Dr. S. P. Rothe	2019
26	Ms. Priyanka Pandharmise	Dr. D. G. Bhadange	2020

Ph. D. Students awarded till 2015 = 15

Ph. D. Students awarded after 2015 = 11

**C] Number of Students registered for Ph. D.**

Sr. No.	Name of students	Supervisor	Year of Registration
1	Ms. Ruchita R. Gandhi	PET	2019
2	Ms. Ashwini P. Shirsat	PET	2019
3	Mr. Nikhil B. Chaukhande	NET (IARI)/PET	2019
4	Mrs. Shital S. Patil (Hiwale)	PET	2019
5	Mr. Shivdas R. Aher	SET/ NET (IARI)	2019
6	Ms. Pooja K. Dhawale	PET	2019

**D] Number of Students completed Ph. D. course work & working for their Ph. D.**

Sr. No.	Name of students	Eligibility
1	Mr. Nilesh S. Sonone	PET

2	Mr. Gopal N. Dhobale	GATE
3	Mr. Vivek S. Kalpande	PET
4	Ms. Tripty D. Jagtap	PET
5	Mr. Akshay G. Deshmukh	PET
6	Ms. Sunanda Dekate	CSIR NET
7	Ms. Neha Kopare	MH-SET

**11. Number of Research projects completed/ ongoing with faculty members:**

<b>Name of PI</b>	<b>Project title</b>	<b>Major/ Minor/ Funding agency/ Amount</b>	<b>Status (Duration)</b>
<b>Dr. S. P. Rothe</b>	Changing pattern of biodiversity in Akola District	Minor / UGC/ 0.75 L	Completed (2005-2007)
<b>Dr. S. S. Suradkar</b>	Anatomical investigations in some Sapindales	Minor/ UGC/ 0.65 L	Completed (2005-2007)
<b>Dr. D. K. Koche</b>	Immunostimulent activity of some plant derived elicitors in <i>Vigna radiata</i>	Minor/ UGC/ 0.75 L	Completed (2005-2007)
<b>Dr. D. K. Koche</b>	Preliminary phytochemistry and antimicrobial activity of some lamiaceae members	Minor/ UGC/ 1.30 L	Completed (2007-2009)
<b>Dr. S. S. Suradkar</b>	Ethnomedicinal survey of Katepurna wildlife sanctuary	Minor/ UGC/ 0.90 L	Completed (2008-2010)
<b>Dr. V. S. Dandge (Patil)</b>	Morphological studies of some members from class deuteromycetes and their mechanism of biological control	Minor/ UGC/ 0.60 L	Completed (2008-2010)
<b>Dr. D. G. Bhadange</b>	Investigation on anti-phytopathogenic activity of some solanaceae members	Minor/ UGC/ 1.20 L	Completed (2008-2010)
<b>Dr. P. P. Umale (Kokate)</b>	Paleoenvironmental study of the flora of Deccan intertrappean beds of some new fossiliferous locations in Buldhana District	Minor / UGC/ 0.60 L	Completed (2008-2010)
<b>Dr. S. P. Rothe</b>	Digitalized inventory of medicinal plants resources from Maratha (Akola and Buldhana District)	Major/ RGSTC and ARI/ 17.80 L	Completed (2009-2012)
<b>Dr. D. G. Bhadange</b>	Exploration of ethnobotanical and ethnomedicinal plants from Akola District	Major/ UGC/ 9.99 L	Completed (2011-2014)

<b>Dr. D. K. Koche</b>	Improvement of Chickpea ( <i>Cicer arietinum</i> L) using induced mutation with special reference to grain yield and nutrition	Major/ DAE-BRNS/ 20.46 L	Completed (2015-2018)
<b>Dr. P. P. Umale (Kokate)</b>	Antioxidant potential of some wild medicinal plants from Akola region (MS) India	Minor/ UGC/ 4.6 L	Completed (2017-2019)
<b>Dr. D. K. Koche</b>	In vitro defense biochemistry of <i>Cicer arietinum</i> L.	Minor/ UGC/ 4.9 L	Completed (2017-2019)

### 12. Students with fellowships:

Name of student	Fellowship	Sponsoring agency	Mentor/ Guide
Mr. Syed Imran	JRF (Major Project) (2009-2012)	UGC	Dr. D. K. Koche
Mr. Mohnish Bokhad	JRF (Major Project) (2009-2012)	RGSTC	Dr. S. P. Rothe
Mr. Manoj Kakpure	JRF (Major Project) (2009-2012)	RGSTC	Dr. S. P. Rothe
Ms. Rupali Shirsat	MANF (2009-2012)	UGC	Dr. S. S. Suradkar
Mr. P. R. Bogawar	JRF (Major Project) (2015-2018)	BRNS- DAE	Dr. D. K. Koche
Ms. Dipali Wankhade	MANF (2016-2019)	UGC	Dr. S. P. Rothe

### 13. Achievements of students during last 05 years:

- **University rank holders-**

- Miss. Leena Patil – 5<sup>th</sup> rank in University Merit position 2016-17.
- Miss. Rupali Ingle- 5<sup>th</sup> rank in University Merit position 2016-17.
- Miss. Pranita Talokar- 3<sup>rd</sup> rank in University Merit Position 2017-18
- Mr. Syed Ovais- 4<sup>th</sup> rank in University Merit Position 2017-18
- Miss. Nusarat Parveen Shaikh Naseen – 1<sup>st</sup> rank in University Merit Position 2019-20
- Miss. Bushra Anjum Shaikh Saleem- 2<sup>nd</sup> rank in University Merit Position 2019-20
- Miss. Leena Patil qualified MPET 2021 exam of SGBAU, Amravati
- Miss. Bushra Anjum qualified MPET 2021 exam of SGBAU, Amravati
- Miss. Tejal Tayde qualified MPET 2021 exam of SGBAU, Amravati

- **Achievements in Avishkar Research convention-**

- Mr. Abhimnyu Maheshwari- Research student, selected for State level Avishkar Competition (2016-17)
- Mr. Shivdas Aher – Post PG section, selected for university level Avishkar Competition (2017-18)
- **Any other-**
  - Miss. Komal Pote secured 2<sup>nd</sup> rank in the Poster competition held at Shri Dr. R. G. Rathod College, Murtizapur (19/01/2018).
  - Mr. P. R. Bogawar, Secured 2<sup>nd</sup> rank in Poster presentation competition in One day State level Seminar on Current Scenario of Botanical Research – 02<sup>nd</sup> February 2018.
  - Ms. Nusrat Parveen and Bushra Anjum secured 1<sup>st</sup> rank in the poster competition organized by Shri Shivaji College, Akola (28/02/2019)
  - Ms. Taleya Fatema and Komal Pote secured 1<sup>st</sup> and 2<sup>nd</sup> rank in the Poster competition organized by MSP Arts, Science and KPT Commerce College, Manora Dist- Washim. (28/02/2019).
  - Mr. Sankalp P. Gajghate has secured 3<sup>rd</sup> Rank in Online National Competition to explore wild beauty & Wealth – “Wild Glory” Flower exhibition and competition held on 8<sup>th</sup> September 2021 and organized by Vinayak Vidnyan Mahavidyalaya Nandgaon (Kh), Amravati (MS).

#### **14. Road map for next 05 years:**

- Up-gradation of UG and PG laboratories with more sophisticated instrumentation.
- Improvement in Research facilities of the Department with more specialized structure.
- Introduction of some rare medicinal plant in Botanical Garden.
- To improve learning resources, including e- learning.
- To start consultancy service in possible subject area.
- To expand extension activities of Department to make the subject more student centric and society oriented.



## Photo Gallery



**Inaugural event -Inaugural Speech by- Hon. Nareshchandraji Thakare**



**Key note speaker- Dr. Archana Joshi, BARC  
Mumbai**



**Poster presentation competition**

### One Day Regional Workshop on "Preparation of Biofertilizer" – 13th Jan. 2018



**Chief guest- Shri Kesharaoji Metkar**



**Inaugurator- Shri Prakashji Pohare**



**Expert- Dr. S. S. Mane and Dr. Totawar**



**Participants of the Regional workshop**

**Inter-University Poster Competition for UG and PG Students (5<sup>th</sup> Feb. 2019)**



**Inaugural Event of Inter-University Poster Competition**



**Chief Guest Dr. S. N. Malode With HOD observing Posters**



**Valedictory function**



**Prize Distribution**

**One day Workshop on "Bonsai Making" 21<sup>st</sup> Jan. 2019**



**Inaugural Event**



**Experts Demonstration**



**Participant students**



**Dignitaries observing the outcome**

**Botanical Excursions**



**At- Chikhaldara range forest**



**At- Muktagiri and nearby forest area**



**At- Pench National Park**



**At- Tadoba National Park- Pauni Gate**



**At- ICRI SAT- Hyderabad**



**At- NBPGR- Hyderabad**

**SOME GLIMPSES OF FLOWER ARRANGEMENT**



**Dignitaries Observing Flower Arrangement**

Webinar Series on Preparation for Competitive Exams in Life Sciences  
(26/05/2020 to 31/05/2020)

## Who can appear/ Eligibility criteria

- M.Sc. or Equivalent degree holder students with at least **55%** marks for General & OBC (**50%** for SC/ST candidates, Physically and Visually handicapped candidates)
- Candidate enrolled for M.Sc. or having completed **10+2+3** years are also eligible to apply under the Result Awaited (RA) category.

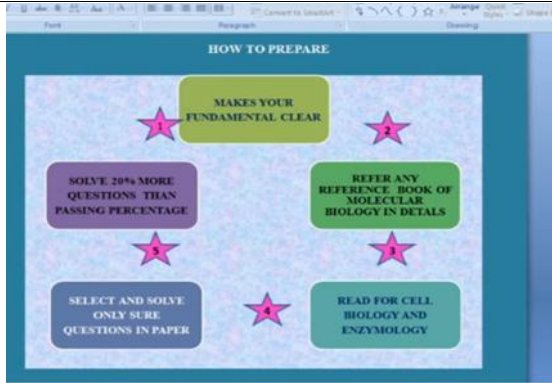
## Important Topics : Biochemistry

- Non Covalent Interactions
- Concept of pH
- Protein Structure (Ramachandran Plot and Dihedral angles)
- Structure and Types of DNA (Chargaff Rule, Sugar Puckering, Sin-Anti)
- Lipids (Phospholipids and Glycolipids, PM Components.)
- Enzymes (Kinetics, Michaelis-Menten, Allosteric, Inhibition)
- Metabolic Pathways (Glycolysis, Linkage, TCA, ETS, Cholesterol SS.)
- Vitamins (Coenzymes, Blood clotting, Vision, Deficiency Disorders)
- Thermodynamics ( $\Delta G$  Calculations of biochemical reactions)



Virtual Presentation by Mr. S. V. Hiwrale

Virtual Presentation by Mr. H. Jaiswal



Virtual Presentation by Dr. P. D. Deshmukh

## DBT – JRF (BET)

- Organising Agency: **Department of Biotechnology**
- Eligibility – PG Biotechnology or in any discipline of Life sciences with 60% (55% for SC/ST)
- Applicable for –Fellowship only
- Website : <http://rcb.res.in/>
- Tentative date of Notification: March – April, every year
- Age and Attempt Limit: 28 years (relaxable upto 5 years for SC/ST) (relaxable upto 5 years for women candidates)

Virtual Presentation by Dr. A. A. Maheshwari



Virtual Presentation by Dr. V. Narkhedkar

## International E-Conference on Innovative Research Trends in Life Sciences



# "Rural organic agri-entrepreneurship model: A small step for better future"

Prof. Dr. Krishnendu Acharya

*Kulvakeri and Agasthi Mysake, and Plant Physiology Laboratory, Department of Botany, University of Calicut, 25, Ballypuzha Circular Road, Kozhikode - 700019, India*

## ADAPTATION: Intracellular SEQUESTRATION OF IONS

Ion	Stress	Control
Na	5.43	1.88
Mg	3.89	1.08
K	7.25	1.88
Ca	2.68	3.01
S.P	1.58	1.88

Na<sup>+</sup> and K<sup>+</sup> Accumulation increased intracellularly.

SCIENTIFIC REPORTS

2020 | Biology and survival of submergely halophyte *Suaeda maritima* L. isolated from Mumbai, western, India in response to salinity stress

### Analysis of lead hit compounds

LEAD HIT COMPOUNDS showing growth and lipid accumulation after 72 h treatment

NI	PI	WJ2000130	WJ2000130	WJ2000130	WJ2000130

Growth and Lipid accumulation graphs.

### Results. 2. Determination of AHL using colorimetric method

Zofenopril and E. Coli

All the three plant extracts have ability of reducing AHL levels and thereby can perform quorum quenching.

### Growth parameters in control and P. indico

Figure 2: Growth of onion plant and roots in control (P1) and P. indico (P2) treatments after 60 days post inoculation.

Figure 2.1: P. indico chlamydomorphs within onion root. Scale bar 50 µm. (B) PCR detection of P. indico in DNA of onion roots. Lane 1: control (NI); Lane 2: P. indico (control); Lane 3: onion root DNA (P1); Lane 4: P. indico (control); Lane 5: P. indico (control); Lane 6: P. indico (control).

### Domoic acid induced oxidative stress

Diagram showing the pathway of Domoic acid (DA) induced oxidative stress, involving ROS, RNS, and various cellular components like DNA, proteins, and lipids.

Substances which can cause cancer are known as **carcinogen** and the process of cancer development is called **carcinogenesis**.


- Smoking and environmental agents can cause cancer.
- Mutation in certain genes.
- Obesity causes cancer.
- Age.


INDIA STORY: CANCER TRENDS CAN BE CURBED

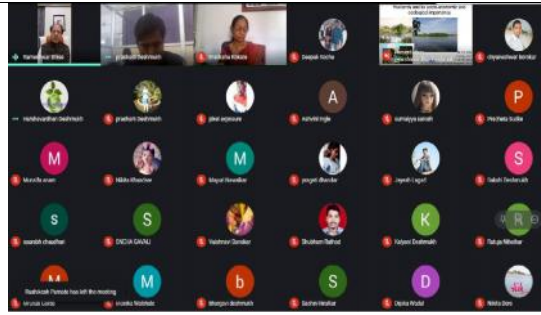
World Wetland Day Celebration 2021 Interuniversity "Wetland Photography Competition"


### Objective of Ramsar convention

- To achieve and maintain the ecological character of the wetlands and facilitate sustainable use for the benefit of people and the environment.
- It also mandates them to frame National Wetland Policies, form wetland inventories, conduct and create monitoring, research and awareness and prepare integrated management plans.












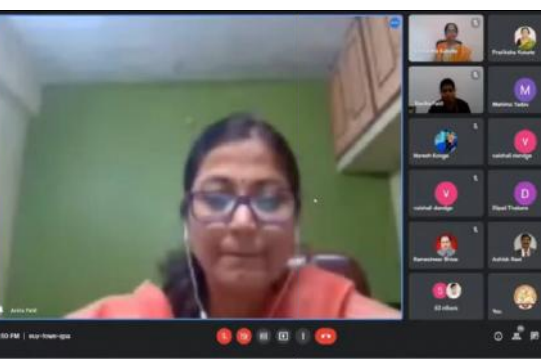
## Virtual Value Based Program 21/02/2021





## One Day Virtual Work Shop on Organic Fertilizers: A Miracle of Nature







### A Virtual Guest Lecture on the occasion of World Ozone Day


### Virtual seminar competition on the occasion of "World Fungus Day" Celebration of Fungal Awareness Week 27<sup>th</sup> Sep to 2<sup>nd</sup> Oct 2021



SHRI SHIVAJI COLLEGE OF ARTS, COMMERCE AND SCIENCE AKOLA  
 WORLD FUNGUS DAY  
 30<sup>TH</sup> SEPTEMBER 2021  
 DEPARTMENT OF BOTANY  
 TOPIC:- FUNGAL PATHOGENIC DISEASES OF HUMAN

BLIGHT DISEASE IN PADDY

**Symptoms:**

- Infected plants display white powdery spots on the leaves and stems.
- The lower leaves are the most affected, but the mildew can appear on any above-ground part of the plant.
- As the disease progresses, the spots get larger and denser as large numbers of asexual spores are formed, and the mildew may spread up and down the length of the plant.

### Main Characteristics of Fungi

- Eukaryotic cells are non photosynthetic that is heterotrophic .
- Most are multicellular that is molds but some are unicellular that is Yeast.
- The cell wall of fungi made up of chitin.

**Diagnosis:**

- Diagnose ringworm by examining your skin and possibly using a black light
- take a sample of your skin or discharge from a blister and send it to a lab to test it for the presence of fungus.
- a small area of infected skin onto a slide and place drops of a liquid called potassium hydroxide (KOH) on it. The KOH breaks apart normal skin cells, making the fungal elements easier to see under a microscope.

5 Types of Fungal Diseases That Attack Plants

## Botanical Association 2020-21 Guest Lecture Series

Shri Shivaji Education Society, Amravati  
**Shri Shivaji College of Arts, Commerce & Science, Akola (MS)**  
 NAAC Reaccredited with 'C' grade College with potential of Excellence.  
 DCT/ERTSponsored, Lead College Status by Parent University

**Department of Botany**  
**GUEST LECTURE SERIES FOR UG STUDENTS**  
**15<sup>TH</sup> FEBRUARY 2021**

**Resource Persons**

**Dr. Mohanish N. Bokhad**  
 Assistant Professor,  
 Department of Botany  
 G. V. I. S. H. Amravati  
 "Embryology of Angiosperm"  
 01:00 to 02:00 pm

**Dr. Mohd. Nafees Iqbal**  
 Assistant Professor & Head,  
 Department of Botany  
 M.S.P. Arts, Science & K.P.T. Commerce College,  
 Manora, Dist. Washim  
 "Photobiology"  
 02:00 to 03:00 pm

**Dr. Rupali P. Shirsat**  
 Assistant Professor,  
 Department of Botany  
 Shri Dr. R. G. Rathod Arts & Science College,  
 Murlizapar  
 "Applications of Microbes"  
 03:00 to 04:00 pm

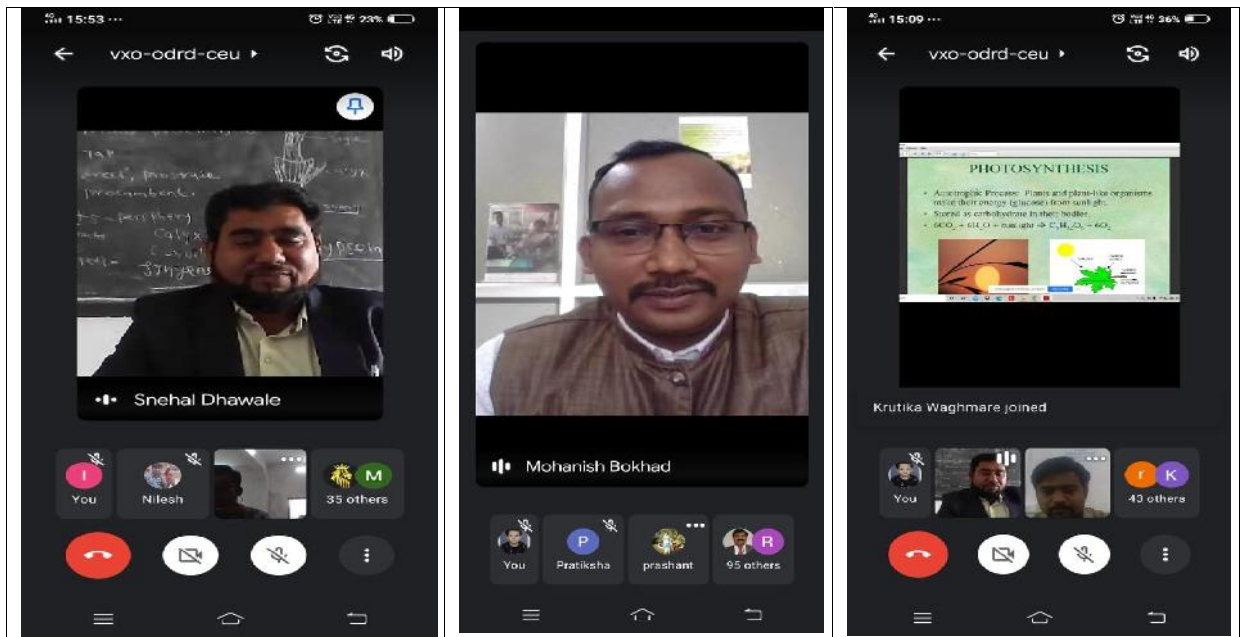
Organized by  
**Botanical Association 2020-21**

Embryology of Angiosperm

Dr. Mohanish N. Bokhad  
 Assistant Professor,  
 Department of Botany,  
 G. V. I. S. H. Amravati

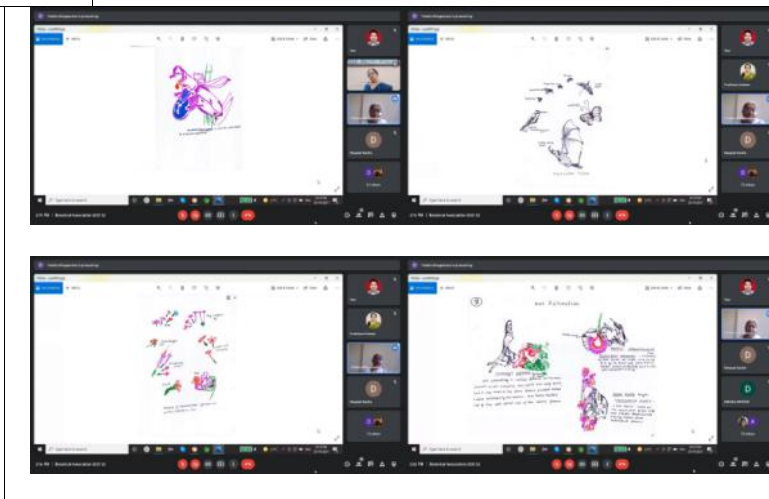
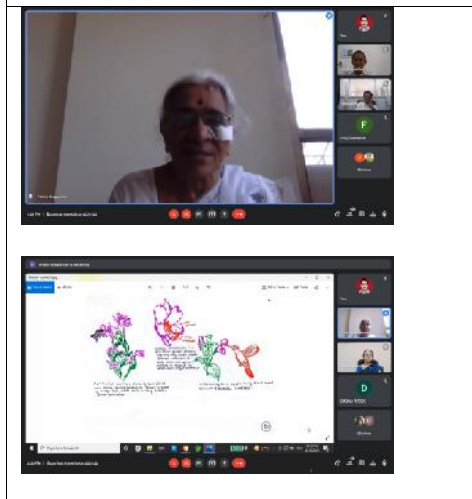
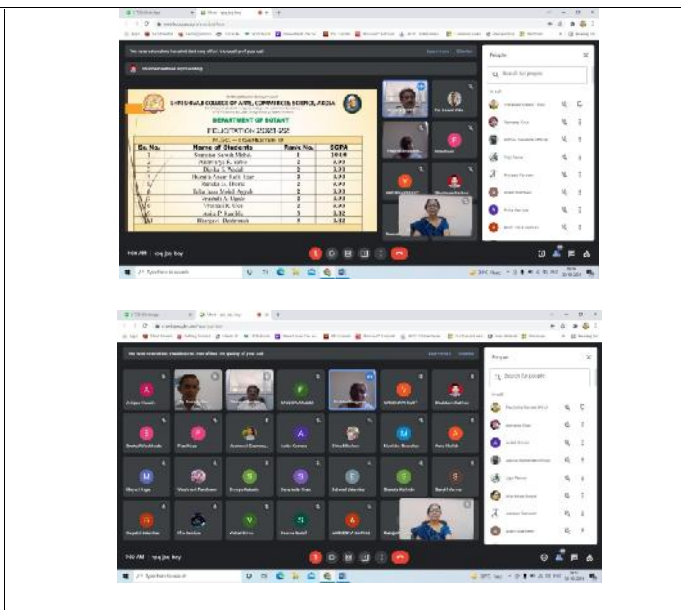
Mohanish Bokhad

You abhishek r... 93 others




## Inauguration of Botanical Association 2021-22

SHRI SHIVAJI COLLEGE OF ARTS, COMMERCE & SCIENCE, AKOLA  
 DEPARTMENT OF BOTANY  
 Organizing  
 Virtual Guest Lecture for UG & PG Students  
 On the occasion of Inauguration of  
**Botanical Association 2021-22**  
 Resource Person  
**Dr. P. Y. Bhogaonkar**  
 Professor & Ex-Director,  
 Govt. Vastanba Institute of Science  
& Humanities, Amravati.  
 First Indian honoured by  
 Jeevi Anant National Award (2012)  
 Topic:  
**"सृष्टीतील सृजनोत्सव"**  
 Date- 30<sup>th</sup> October 2021  
 Time- 01:00 PM  
 Registration Link- <https://forms.gle/mD6r5hajuByjBa8>  
 Google Meet Link - <https://meet.google.com/vxq-odrd-ceu>  
 Organizing Committee  
 Dr. P. P. Umale, Professor & Head  
 Dr. D. K. Koche, Professor  
 Dr. V. S. Patil, Professor  
 Mr. N. S. Choukhande, Assistant Professor  
 Dr. A. V. Dike, Assistant Professor  
 Mr. S. A. Rathod, Assistant Professor



## Glimpses of Boranical Association 2021-22 Guest lecture Series for UG & PG



**Shri Shivaji College of Arts, Commerce & Science, Akola (MS)**  
NMAC Recognized with "A" grade College with potential for Excellence, DST FIST Sponsored, UGC College Status by Yashwantrao Chavan University

**DEPARTMENT OF BOTANY**


**GUEST LECTURE SERIES FOR PG STUDENTS**  
29<sup>th</sup> NOVEMBER 2021

**Resource Persons**

**Dr. Rupesh S. Radere**  
Associate Professor,  
Post Graduate Teaching Department of Botany,  
B. T. M Nagpur University, Nagpur  
"Regulation of Gene Expression"  
01:00 to 02:00 pm




**Dr. Vishal R. Marathe**  
Associate Professor,  
Department of Botany,  
N.E.S. Science College, Nashik (MS)  
"Plant Classification Systems"  
02:00 to 03:00 pm



Registration Link - <https://forms.gle/ZADg6ApVsh8btsp57>

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**Botanical Association 2021 - 22**

29/11/2021



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**DEPARTMENT OF BOTANY**


**ALUMNI GUEST LECTURE SERIES FOR UG STUDENTS**  
30<sup>th</sup> NOVEMBER 2021

**Resource Persons**


**Dr. Sushita W. Dighe**  
Associate Professor & Head,  
Department of Botany,  
Sanjivani Mahavidyalaya, Pandharpur,  
Dist. Buldhana (MS)  
"Diversity of Plants with respect to Cryptogams"  
01:00 to 02:00 pm



**Mr. Shivdas R. Aher**  
Assistant Professor,  
Department of Botany,  
M.S.P. & K.E.T. College, Muzgaon Dist.,  
Warananagar (MS)  
"Application of Plant Growth Hormones"  
02:00 to 03:00 pm



**Dr. Manoj R. Kalpure**  
Assistant Professor & Head,  
Department of Botany,  
L. R. Bhargava Arts, Comm. & S. S. B. Bhamburda College, Dist. Solapur  
"Morpho-Taxonomy of Monocotyledons"  
03:00 to 04:00 pm

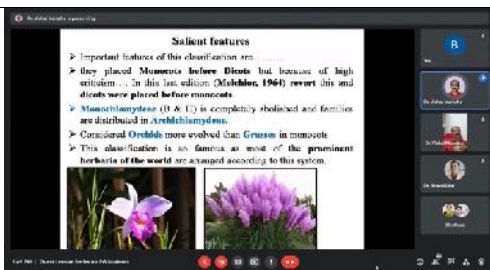
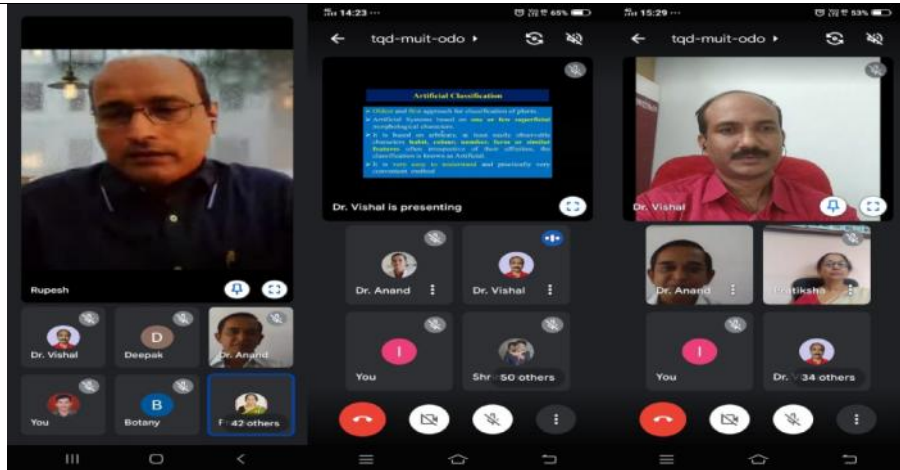


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