

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

## DEPARTMENTAL PROFILE

1. Name of Department : BOTANY

2. Year of Establishment UG : 1967

PG : 1992

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.	Associate Professor & HOD
2	<b>Dr. Deepak K. Koche</b>	M. Sc., NET, Ph. D.	Associate Professor
3	<b>Dr. Vaishali S. Patil</b>	M. Sc., M. Phil, Ph. D.	Associate 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. Prashant P. Deshmukh</b>	M. Sc. NET	Assistant Professor
7	<b>Mr. Subham A. Rathod</b>	M. Sc. NET	Assistant Professor
8	<b>Dr. Rasika N. Patil</b>	M. Sc. Ph. D.	Assistant Professor

<b>Faculty Positions (2017):</b>	<b>Sanctioned: 11</b>	<b>Filled: 08</b>
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4. Details of administrative/ Technical Staff:

Sr. No.	Name	Qualification	Designation
1	Mr. V. B. Tayade	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 (2018-19):**

Course	Male	Female	Total	Demand ratio
B. Sc.	220	322	542	1:1.2
M. Sc.	04	40	44	1:5
Ph. D.	00	02	02	--
Ph. D. Course work	04	06	10	1:1

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

Course	2016-17	2017-18	2018-19
B. Sc.	78.24%	77.78%	76.26%
M. Sc.	94.11%	87.06%	85.00%

- 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 five desktop computers with Internet facilities. Each faculty member have personal laptops.
- Department have Botanical garden and vermi-compost pit.
- Departmental library is equipped with more than 550 text books, reference books, journal issues and students projects.
- A seminar hall with smart board and LCD facility for students disposal.

**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]
- One day State level Seminar on "Current Scenario of Botanical Research", Funded by UGC (CPE Phase- II) and organized by the Department in collaboration of Botany Teachers Association, SGB Amravati University, Amravati- Dated 02<sup>nd</sup> February 2018.
- "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.
- 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]
- Inauguration of Botanical Association, Induction Program, Guest lectures of eminent persona in the field, plantation in college campus, cleanliness drive botanical excursion and visits, 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

Ph. D. Students awarded till 2015 = 15

Ph. D. Students awarded after 2015 = 10

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

Sr. No.	Name of students	Supervisor	Year of Registration
1	Ms. Priyanka Pandharmise	Dr. D. G. Bhadange	January 2015

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

Sr. No.	Name of students	Eligibility
1	Ms. Ruchita R. Gandhi	PET
2	Ms. Ashwini P. Shirsat	PET
3	Mr. Nikhil B. Chaukhande	NET (IARI)/PET

4	Mr. Nilesh S. Sonone	PET
5	Mrs. Shital S. Patil (Hiwale)	PET
6	Mr. Shivdas R. Aher	SET/ NET (IARI)
7	Mr. Gopal N. Dhobale	GATE
8	Mr. Vivek S. Kalpande	PET
9	Ms. Pooja K. Dhawale	PET
10	Ms. Tripty D. Jagtap	PET

**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 Vigna radiata	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	Major/ RGSTC and ARI/ 17.80 L	Completed (2009-2012)

	from Maratha (Akola and Buldhana District)		
<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	Ongoing
<b>Dr. D. K. Koche</b>	In vitro defense biochemistry of <i>Cicer arietinum</i> L.	Minor/ UGC/ 4.9 L	Ongoing

## 12. Students with fellowships:

<b>Name of student</b>	<b>Fellowship</b>	<b>Sponsoring agency</b>	<b>Mentor/ Guide</b>
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

- **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)

#### **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.
- Improved structure alteration of Botanical Garden (separate zones for aquatic plants, xeric plants, medicinal plants, ornamental plants etc.)
- 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.

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## Photo Gallery

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### One Day State Level Seminar on "Current Scenario of Botanical Research" 2<sup>nd</sup> Feb. 2018.



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" - 13<sup>th</sup> 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 -**



**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- ICRISAT- Hyderabad**



**At- NBPGR- Hyderabad**

**Students appeared for Ph. D. course work and  
working for their Ph. D. (2019-20)**

<b>Sr. No.</b>	<b>Name of students</b>	<b>Eligibility</b>
1	Ms. Ruchita R. Gandhi	PET
2	Ms. Ashwini P. Shirsat	PET
3	Mr. Nikhil B. Chaukhande	NET (IARI)/PET
4	Mr. Nilesh S. Sonone	PET
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9	Ms. Pooja K. Dhawale	PET
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