

Template for Department Profile

Name of the Department: BOTANY

1) From the Desk of Head in 200 words:

The Department of Botany is established in 1964 with 09 students and few faculty members. The dynamic and visionary contributions of several renowned botanists earned the Department international recognition for teaching and research, based on exemplary performance. There were several projects like PL480 and CSIR etc. In the recent past, the Department received grants under the Lead garden scheme and continued to receive assistance under DST-FIST, UGC-SAP DRS-I & II and DST-PURSE, DBT, IPLS, RGSTC, BARC, MOEF & CC programmes. Department highlights in terms of its ranking, courses. The Department of Botany is committed to expand and absorb the wide diversity of scientific disciplines that have come to be associated with the study of plants. Our M.Sc., M.Phil. and Ph.D. programmes are multi-faceted and designed to empower post-graduate students and researchers with a holistic and comprehensive education across a wide range of subject areas, which would enable them to contribute effectively to basic and applied education and research in plant Sciences. The Department has taken conscious efforts to expand teaching program bringing together novel developments in the field with traditional areas of Botany through field excursions and projects. The students are coached and encouraged through remedial teaching and academic guidance. Our mission is to strive for an excellent environment for learning and research in plant sciences and produce graduates and post graduates equipped with skills necessary to fulfill their role in contemporary society. Our vision is to maintain our position as the premier department of higher learning and research in Botany as advance centre of plant sciences and to further commit ourselves to academic excellence.

THRUST AREAS FOR FURTHER RESEARCH-

Plant Biodiversity

Conservation Ecology

Fungal Taxonomy

Plant mutation Breeding

Stress Physiology

Plant Tissue Culture

Medicinal Plants

Coastal bioresources

Management of fungal Plant Pathogens

2) Brief History of the department along with present focus in academic & research.

Department of Botany established in 1964, is one of the oldest departments in Shivaji University. The department started functioning with enrolling nine students for the M.Sc. course and three teachers (Two lecturers and one demonstrator). Since the time the department moved in its own premises on the University Campus (1966), it has progressed rapidly with increase in student number as well as faculty strength. At present, the department admits 55 students for M.Sc. course and the sanctioned faculty is fifteen. Further there is a non-teaching / technical staff of ten members. During the course of last fifty five years, the department introduced following specializations for M.Sc. Senior Course.

1. Plant Physiology
2. Mycology and Plant Pathology
3. Angiosperm Taxonomy
4. Cytogenetics and Plant Breeding

5. Energy, Ecology and Environment
6. Marine Botany
7. Plant Biotechnology
8. Palaeobotany (At present suspended)

Besides, two interdisciplinary subjects viz. Plant Protection and Pollution were also taught as specializations for some period. Both classical and applied aspects of the subjects of Botany have been taken into consideration while framing the M.Sc. syllabus and an attempt is always made to keep it in tune with the modern trends and UGC policy. The department conducts SET-NET coaching program as well as Remedial Coaching courses. Along with M.Sc. Course department conducting is M.Phil. and Ph.D. program. The dept. has awarded 121 M.Phil. and 261 Ph.D. degrees to the students. Majority of the past students of the department have opted for teaching profession while some past students have occupied important positions in administration and research fields. A few past students have also earned reputation as successful industrialists. The department is instrumental in starting UGC sponsored Faculty Improvement (FIP) and under this activity 79 teacher fellows obtained M.Phil. and Ph.D. degrees. The department organized 13 refresher courses for college teachers.

Department is DST FIST supported, UGC SAP I and II assisted, PL-480, IPLS, DST PURSE Programmes (now it is in second phase). The Botanical Garden of the department has been recently recognized as a 'Lead Garden' by MOEF and is supported accordingly. Now MOEF has sanctioned third phase for Lead Garden.

3) **Vision** :The continued wellbeing of the common man through a study of plant sciences.

4) **Mission**:

Its mission is to apply conventional as well as non-conventional tools to understand plant process, development of human resource with hands on experience in the frontier areas of Plant Sciences.

Establishment of linkages with National and International Institute for betterment of students of the Department.

5) **Core Values of the Department**

- Build up Area -2176.82 sq.m. (23400.4 sq. feet)
- DST FIST supported
- UGC SAP I and II assisted
- PL-480, IPLS
- DST PURSE Programmes(now it is in second phase)
- Lead Garden: 42 ACRES
- Herbarium: 'SUK' ACRONYM
- Radio Active Laboratory
-

6) Academic Programs offered with Intake.

Sr. No.	Academic Programs offered	Student Intake
1.	M.Sc.	50 + 5
2.	M.Sc. (T&D-Inclusive course)	02/faculty
3.	M. Phil.	03/faculty
4.	Ph.D.	08/faculty

7) Outcome base Education

a. Program Education Objectives:

- 1) Botany programme is designed to equip students with essential knowledge and technical skills to study plants in a holistic manner.
- 2) Students would be trained in all areas of plant biology using a unique combination of core and elective papers with significant interdisciplinary components
- 3) Students would be exposed to cutting-edge technologies that are currently used in the study of plant life forms, their evolution and interactions with other organisms and with the ecosystem.
- 4) Students would also become aware about the social and environmental significance of plants and their relevance to the national economy
- 5) To provide practical experience to the students as a part of the course to develop scientific ability to work in the field of research and other fields of their own interest and to make them fit for society.

b. Programme Outcomes:

- 1) The course is aimed at adding to the knowledge base of Botany graduates through significant inputs of latest information on the subject.
- 2) A student completing the course is able to understand different specializations of Botany such as Systematics, evolution, ecology, developmental biology, physiology, biochemistry, plant interactions with microbes and insects, morphology, anatomy, reproduction, genetics and molecular biology of various life-forms.
- 3) The student completing the course is trained in various analytical techniques of plant biology, use of plants as industrial resources or as human livelihood support system and is well versed with the use of transgenic technologies for basic and applied research in plants.
- 4) The student completing the course is able to identify various life forms of plants, design and execute experiments related to basic studies on evolution, ecology, developmental biology, physiology, biochemistry, plant interactions with microbes and insects, morphology, anatomy, reproduction, genetics, microbiology, molecular biology, recombinant DNA technology, proteomics and transgenic technology.
- 5) Students are also familiarized with the use of bioinformatics tools and databases and in the application of statistics to biological data

CBCS with course Structure of M.Sc.

Paper no. M.Sc. I	Course Title	Credits
Paper-I (CC-101)	Biology and Diversity of Fungi, Algae and Bryophytes	24
Paper-II (CC-102):	Biology and Diversity of Pteridophytes, Gymnosperms and Palaeobotany	
Paper-III (CC-103):	Plant Ecology and Evolution	
Paper-IV (CC-104):	Tools and techniques	
Practical-I (CCPR-105.1):	Biology and Diversity of Fungi, Algae and Bryophytes	
Practical II (CCPR-105.2):	Biology and Diversity of Pteridophytes, Gymnosperms and Palaeobotany	
Practical -III (CCPR-105.3):	Plant Ecology and Evolution	
IV (C Practical (CCPR-105.4):	Tools and techniques	
Paper-V (CC-201):	Angiosperm Systematics	24
Paper-VI (CC-202):	Plant Pathology	
Paper-VII (CC-203):	Plant Structure Development and Reproduction	
Paper-VIII (CC-204):	Cell and Molecular Biology	
Practical-V (CCPR-205.1)	Angiosperm Systematics	
Practical -VI (CCPR-205.2):	Plant Pathology	
Practical -VII (CCPR-205.3):	Plant Structure Development and Reproduction	
Practical -VIII (CCPR-205.4):	Cell and Molecular Biology	

M.Sc.II

Sr. No.	Courses	Credits
M. Sc. II, Sem III CCPA		04
Core Course Botany (CC-301)	Paper-IX (CC-301): Cytogenetics and Crop Improvement	
CCS-302: Core course specialization	Paper-XI (CCS- 302.1): Plant Physiology (SPECIAL PAPER I) ADVANCED PLANT PHYSIOLOGY AND PLANT BIOCHEMISTRY	
	Paper-XI (CCS- 302.2): Mycology and Plant Pathology (SPECIAL PAPER I) TAXONOMY OF FUNGI	

	Paper-XI (CCS- 302.3): Cytogenetics and Plant Breeding (SPECIAL PAPER- I) CYTOGENETICS	
	Paper-XI (CCS- 302.4): Energy, Ecology and Environment (special paper -I) environment and its aspects	
	Paper-XI (CCS- 302.5): Angiosperm taxonomy (special paper-I) The evolution and classification of angiosperms	
	Paper-XI (CCS- 302.6): Marine botany (special paper -I) General marine botany	
	Paper-XI (CCS- 302.7): Plant Biotechnology (Special paper -I) Plant tissue culture	
CCS-303: Core course specialization	Paper-XII (CCS- 303.1): Plant Physiology (Special paper ii) plant growth and development	04
	Paper-XII (CCS- 303.2) Mycology and plant pathology (special paper ii) integrated disease management	
	Paper-XII (CCS- 303.3): Cytogenetics and Plant Breeding (special paper ii) plant breeding	
	Paper-XII (CCS- 303.4): Energy, Ecology and Environment (Special paper ii) population and community ecology	
	Paper-XII (CCS- 303.5): Angiosperm Taxonomy (Special paper ii) modern trends in angiosperm taxonomy	
	Paper-XII (CCS- 303.6): Marine Botany (Special paper ii) physiology and biochemistry of Marine plants	
	Paper-XII (CCS- 303.7): Plant Biotechnology (Special paper ii) molecular biotechnology and Genetic engineering	
Discipline specific elective -304	Paper-X (DSE- 304): Biotechnology and Genetic Engineering	04
CCPR-305 (Core course practical)	Practical based on Paper IX (301), XI (302), XII (303) & DSE- 304	04
Non CGPA	AEC-306 Botany and Human Welfare EC (SWM-MOOC)-306	02
M. Sc. II, Sem III CCPA Sem –IV		

	Courses	
Core Course Botany (CC-401)	Paper-XIII (CC401): Plant Physiology and metabolism	04
CCS-402: Core course specialization	Paper-XV (CCS402.1): Plant Physiology (SPECIAL PAPER III) STRESS PHYSIOLOGY OF PLANTS	
	Paper-XV (CCS402.2): Mycology and Plant Pathology (SPECIAL PAPER III) INDUSTRIAL MYCOLOGY	
	Paper-XV (CCS402.3): Cytogenetics and Plant Breeding (SPECIAL PAPER- III) MOLECULAR GENETICS	
	Paper-XV (CCS402.4): Energy, Ecology and Environment (SPECIAL PAPER III) EXPERIMENTAL ECOLOGY AND ENERGY STUDIES	
	Paper-XV (CCS402.5): Angiosperm Taxonomy (SPECIAL PAPER III) ANGIOSPERM TAXONOMY FLORISTICS AND BIOSYSTEMATICS	
	Paper-XV (CCS402.6): Marine Botany (SPECIAL PAPER III) MARINE ECOLOGY	
	Paper-XV (CCS402.7): Plant Biotechnology (SPECIAL PAPER III) APPLICATION AND PROSPECTS OF PLANT TISSUE CULTURE	
CCS-403: Core course specialization	Paper-XVI (CCS 403.1): Plant Physiology (SPECIAL PAPER IV) APPLIED PLANT PHYSIOLOGY	
	Paper-XVI (CCS403.2): Mycology and Plant Pathology (SPECIAL PAPER IV) INTEGRATED DISEASE MANAGEMENT	
	Paper-XVI (CCS403.3): Cytogenetics and Plant Breeding (SPECIAL PAPER IV) SPECIAL APPROACHES IN GENETIC IMPROVEMENT OF CROP PLANTS	
	Paper-XVI (CCS403.4): Energy, Ecology and Environment (SPECIAL PAPER IV) ENVIRONMENTAL ISSUES, ASSESSMENT AND RESTORATION	
	Paper-XVI (CCS403.5): Angiosperm Taxonomy (SPECIAL PAPER IV) PHYLOGENY AND FLORAL BIOLOGY OF ANGIOSPERMS	
	Paper-XVI (CCS403.6): Marine Botany (SPECIAL PAPER IV) APPLIED MARINE BOTANY	
	Paper-XVI (CC403.7): Plant Biotechnology APPLICATION, REGULATION AND PATENTING BIOTECHNOLOGY	

Discipline specific elective -404	PAPER-XIV (DSE- 404) BIODIVERSITY:CONSERVATION AND UTILISATION	04
CCPR-405 (Core course practical)	Practical based on Paper XIII(401), XV (402), XVI(403) & DSE- 404	28
Non CGPA (SEC-406)	Skill Enhancement Course (SEC-406) :Industrial Botany (02)	
GE-407	Generic elective-GE-407: Horticulture & Green house technology(02)	

8) Faculty Details (Details of the faculty in one page)

Sr. No.	Name	Contact no	E-mail ID	Designation	Research Areas	No of Research papers published in last 5 years
1.	Dr. Varsha. D. Jadhav	02312609155	vdj_botany@unishivaji.ac	Professor	Pharmacognosy, Ethnobotany, Nutraceuticals	34
2.	Dr. S.S. Kamble	9881090308	ssk_botany@unishivaji.ac.in	Professor	Plant Pathology	40
3.	Dr. D.K. Gaikwad	09822207818	dkg_botany@unishivaji.ac.in	Professor	Stress Physiology, Phytochemicals,	17
4.	Dr. N.B. Gaikwad	9422423369	nbg_botany@unishivaji.ac.in	Professor	Cytogenetics, Biotechnology	30
5.	Dr. R. V. Gurav	9421201984	rv_g_botany@unishivaji.ac.in	Assistant Professor	Cytogenetics & Plant Breeding, Biodiversity	32
6.	DR. S. A. Patil	9657682800	sap_botany@unishivaji.ac.in	Assistant Professor	Cytogenetics & Plant Breeding	14
7.	Dr. S. G. Ghane	9011045084	sgg_botany@unishivaji.ac.in	Assistant Professor	Plant Physiology, Secondary Metabolites	11
8.	Dr. M.M. Lekhak	8007934264	mml_botany@unishivaji.ac.i	Assistant Professor	Plant Taxonomy	29
9.	Dr. K. B. Pawar	9422324078	kbp_botany@unishivaji.ac.in	Assistant Professor	Plant Physiology, Allelopathy	07
10.	Dr. M. S. Nimbalkar	9270838273	msn_botany@unishivaji.ac.i	Assistant Professor	Cytogenetics & Plant Breeding	14
11.	Dr. S.R. Yadav	9421102350	sryadavdu@rediffmail.com	Professor INSA Senior Scientist	Taxonomy of angiosperms	87
12.	Prof. N. S. Chavan	9975915940	nsc_botany@unishivaji.ac.in	Professor Adjunct Professor	Plant Ecology	25

Past Faculty : 1. Dr. G.B. Dixit, Professor retired on 24 Oct 2014

2. Dr.(Smt.) A.B. Sabale Professor retired on 30th Sept 2015

Sr. No.	Name	Research Projects in last 5 years		Books published	Patent	No. of papers published in National/International Conference	Citation	H-Index	i10-index	RG Score	Total no of Ph.D. Students		Visits Abroad	National/International Awards	Selected publications (10)
		Completed	Ongoing								Awarded	Working Ph.D M. Phil			
1.	Dr. Varsha. D. Jadhav	-	02	-	-	03	291	11	10	15.85	07	07	-	-	07
2.	Dr. S.S. Kamble	-	01	-	-	-	148	6	4	9.55	27	06	02 Thailand, Spain	-	10
3.	Dr. D.K. Gaikwad	-	01	4	-	04	356	11	11	11.67	19	06	01- Israel	-	
4.	Dr. N.B. Gaikwad	07	02	-	-		347	12	13	20	05	06	01- Vienna	-	
5.	Dr. R. V. Gurav	05	01	01	-		126	7	5	12.73	05	03	-	-	-
6.	DR. Swaroopa A. Patil	01	01	-	-	01	21	02	-		01	03	-	-	-
7.	Dr. S. G. Ghane	04	01	-	-		49	4	-	13.88	-	01	-	-	-
8.	Dr. M.M. Lekhak	06	01	-	-		111	5		23.96	-	04	01- Japan		
9.	Dr. Kalyani B. Pawar	-	01	-	-	01	32	03	01	7.81	1-M. Phil	02	01- China	-	02
10.	Dr. M. S. Nimbalkar	01	01	-	-		372	14	16	21.39	-	3 2	-	-	-
11.	Dr. S.R. Yadav	04	02	02	-		1227	18	12	35.62	26	05	02- China Brazil	07	10
12.	Prof. N. S. Chavan	03	-	01	-		204	8	4	24.76	4	1	-	02	-

9) Details of Research Laboratories & infrastructure with photographs.

➤Specialization laboratories

- 1 Plant Physiology Laboratory
- 2 Cytogenetics and Plant Breeding Laboratory
- 3 Mycology and Plant Pathology Laboratory
- 4 Energy, Ecology and Environment Laboratory
- 5 Plant Biotechnology Laboratory
- 6 Angiosperm and Plant Taxonomy Laboratory
- 7 Marine Botany Laboratory
- 8 Tissue Culture laboratory for M. Sc. Students

➤ **Research laboratories**

1. Prof. V.D. Jadhav
2. Prof S.S. Kamble
3. Prof. D.K. Gaikwad
4. Prof. N.B. Gaikwad
5. Dr. R.V. Gurav
6. Dr. S. A. Patil
7. Dr. S.G. Ghane
8. Dr M. M. Lekhakh
9. Dr. K.B. Pawar
10. Dr. M. S. Nimbalkar
11. Prof.S.R.Yadav
12. Prof. N.S. Chavan
13. Instrument Room
14. Molecular laboratory
15. Radioactive laboratory
16. Tissue Culture laboratories- 02
17. Computer Laboratory with Internet Facility

➤ **INFRASTRUCTURES**

A. HERBARIUM

➤ **HERBARIUM : Acronym-SUK**

i)	Total No. of herbariums deposited	: 40,000
ii)	No. of Pteridophytes herbarium specimens	: 751
iii)	No. of dried fungal specimens	: 580

B. PLANT WEALTH OF THE DEPARTMENT.

Plant Diversity: Collection & Conservation

Angiosperms	850
Ornamental Plants	150
Orchids	90
Palm	55
Ferns and gymnosperms	120
Mangroves	27
Grasses	20
Fossil species	119
Fungal Herbarium	150
Fungal Cultures	90

C. BOTANICAL GARDEN

Botanical Garden	42	acres
Polyhouses	03	
Shade nets	03	
Wire houses	02	
Glass houses	01	
Fernery	01	

Experimental Fields	2.5 acres
Water Tanks	07
Well	02

D. MUSEUM

ii)	No. of Plant Fossils	: 702
iii)	Wood Specimens	: 42 types
iv)	Preserved Material	
	Algae	: 28
	Fungi	: 233
	Bryophytes	: 10
	Pteridophytes	: 10
	Gymnosperms	: 10
v)	Permanent Slides	:
	Algae	- 85
	Angiosperm	- 99
	Bryophyte	- 96
	Embryology	- 85
	Fungi	- 177
	Gymnosperm	- 82
	Pteridophyte	- 95
	Paleobotany	- 170
vi)	Charts (Size 3' × 4) and maps	: 5
vii)	Medicinal Plant Specimens	: 25

E. Audiovisual Aids :11 lcd

F. Nilambari Multipurpose Hall

G. LIBRARY

i)	University	
	Total No. of Books	5352
	Foreign Journals	03
	Indian Journals	14
	Foreign Journals	
	i. Botanical Review	
	ii. Cytology	
	iii. Taxon	
	Indian Journals	
	1) Advances in Plant Sciences	
	2) Geobios	
	3) Geophytology	

- 4) Indian Fern
- 5) Indian Journal of Genetics & Plant Breeding
- 6) Indian Journal of Marine Sciences
- 7) Indian Journal of Plant Physiology
- 8) Indian Phytopathology
- 9) Journal of Cytology & Genetics
- 10) Journal of Genetics
- 11) Journal of Mycology & Plant Pathology
- 12) Nature, Environment, Pollution & Technology
- 13) Palaeobotany
- 14) Phytomorphology

ii) Departmental Library

Total Number of reference Books	540
Number of journals	129
Number of issues	430
Number of Ph. D. Thesis	082
Number of thesis from Other University	028
Number of M. Phil. Dissertation	061
Number of M.Sc. T.D. Dissertation	
And M.Sc. project reports	260
Number of reprints	650

10) Qualified Students: NET/GATE/SET Students 2014-2019

Sr. No.	Name of the students	Exam			Year
		NET	SET	GATE/UPSC/MPSC	
1.	Gojare Santosh M.	NET	-	-	June. 2014
2.	Hande Pavan	-	SET	-	June. 2014
3.	Mr. Pramod Lawand	NET/JRF	-	-	Dec.2014
4.	Mr. Rahul Minchekar		SET		2015
5.	Mr.Somnath Madhukar Jadhav	NET JRF	-	-	Dec. 2015
6.	Mr. Sanket Sadashiv Patil	NET	-	-	2015
7.	Mr.Sachin Bhikaji Patil	NET	-	-	Dec.2015
8.	Mr.Suneel Bhagat	NET			Dec.2015
9.	Anita Murgunde	-	SET	GATE	Dec.2015
10.	Mr. Somnath Jadhav		SET	-	2016
11.	Mr. Rahul Sawant	NET JRF -	SET	-	2016
12.	Mr. AnantPatil	-	SET	-	2016
13.	Mr.Sanket Sadashiv Patil	NET-	-	GATE	Mar.2016
14.	Mr. Indrajeet A. Samant	NET JRF	-	-	Dec. 2016
15.	Mr. Suraj Sanjay Patil	NET		-	Dec 2017
16.	Miss Jayashree Gadade	NETJRF	SET-	GATE	Feb 2017
17.	Mr. Indrajeet A. Samant	-	Lect.SET	-	Apr. 2017

18.	Ms. BhagyashreeNaiknaware	NET	SET	GATE -	2017
19.	Ms. Radhika Mali	-	SET	-	2017
20.	Mr. Milind Golase	-	SET	-	2017
21.	Mr. Krishnat Hari Rokade	-	SET	-	April 2017
22.	Ms. Neha Magdum	-	SET	-	April 2017
23.	Mr. Aditya Magdum	-	KSET	-	Dec 2017
24.	Mr. Aniket Swami	LS NET	-	-	June 2017
25.	Ms. Padma Nale	LS NET	-	-	June 2017
26.	Miss Leena Khade	-	SET	-	Jan 2018
27.	Mr. Vitthal Bhosale	NET- JRF	SET	-	2018
28.	Mr. Ruturaj Patil	Agri NET	-	-	2018
29.	Ms. Varsha Dawande	-	SET	-	2018
30.	Akshay Prakash Jangam	NET	-	-	Dec. 2018
31.	Shubham Tukaram Bole	NET(Rank 28)	-	-	Dec. 2018
32.	Sudarshan Tanaji Charapale	NET-JRF	-	-	Dec. 2018
33.	Shamal Bhagawan Raste	NET	-	-	JUN 2018
34.	Aditya Magdum	NET	-	-	Jun 2018
35.					

11) Details of Students Placements.

Year	Temporary/ Permanent
2014-2015	21+02
2015-2016	36+04
2016-2017	45+05
2017-2018	64+01
2018-2019	58+01

12) Details of MoUs and Linkages.

• Collaborations

1. Ashoka Trust for Research in Ecology and Environment (ATREE), Bangalore
2. Forest Department Pune.
3. NBPGR , Pusa Campus, New Delhi
4. NBPGR Regional Station Vellanikkara, KAU PO, Thrissur
5. NBPGR Regional Station, Bhowali, Nainital, Uttarakhand.
6. NBPGR Regional Station,CAZRI Campus, Jodhpur, Rajasthan.
7. Dept. of Biotechno. and Bioinformatics, North Eastern Hill University, Permanent Campus, Mawkyntroh,Shilong.
8. Dr. BAMU, Aurangabad

9. Forest Department, Govt. of Maharashtra, Kolhapur
10. ARI, Pune.

- **MOU**

- 1 NIO, Goa.
- 2 Phytopharma, Kolhapur.
- 3 Goa University, Goa.

- **LINKAGES**

➤ **International Linkages**

- 1 Royal Botanical Garden, Kew (UK)
- 2 The Institute of Low Temp Sciences, Hokkaido Uni. Sapporo (JP)
- 3 Biological Faculty, Moscow State Univ., Moscow (USSR).
- 4 Western Australian Herbarium, Science Division, Dept. of Env. & Conser. WA, (AUS)
- 5 Hongkong University, Hongkong.

➤ **National Linkages**

- 6 UAS, GKVK, Bangalore.
- 7 KFRI, Trissur.
- 8 NBPGR, New Delhi
- 9 ATREE, Bangalore.
- 10 Forest Department. Maharashtra.
- 11 BARC, Mumbai.
- 12 College of Forestry, UAS, Ponampet.
- 13 College for Forestry, UAS, Sirsi.
- 14 North Eastern Hill University, Shilong
- 15 Univ. of Delhi, Delhi,
- 16 S.P. University Pune, Pune.
- 17 Dr. B.A.M. Univ. Aurangabad.

13) Extracurricular and Extension activities.

➤ **Extra curricular**

Dr. Varsha. D. Jadhav:

Worked as member of Research Committee.

Organizing secretary of National conference on Mangroves and coastal resources on 12th April 2019.

Member of DRC of AGPM & Botany Dept. Shivaji University, Kolhapur

Member of BOS, Y C Institute of Satara & Shivaji University, Kolhapur.

Worked as a women nominee on University selection committee

Worked as chairman and member of LIC of Shivaji University

Worked as a Rector of ladies hostel of Shivaji University Kolhapur

Member of Senate from Oct 2010 to 2015 in Shivaji University Kolhapur.

Dr. S.S. Kamble:

Worked as chancellor nominee

Worked on University selection committee

Worked as chairman and member of LIC of Shivaji University

Dr. N.B. Gaikwad:

Worked as chairman and member of LIC of Shivaji University

Management council member of Shivaji University

Senate member of Shivaji University

Member, Grievance committee, Shivaji University.

➤ **Extension activities**

Dr. D.K. Gaikwad

Nirmal Wari- Pandharpur Yatra, with 2000 NSS students to clean the path of wari, 2018, 2019.

Actively participated in Yoga Pranayam and Meditation training programmes organized by Art of Living foundation at Bangalore, Kolhapur, Kodoli etc.

Coordinator for Nirmal Gram State level Inspection Committee in Kolhapur Dist. and inspected 504 villages. Member of organizing committee for State level central NSS camp for sanitation project in association with Nirmal Gram Scheme of Z.P. Kolhapur.

Dr. R. V. Gurav:

Worked as examiner for the Sangali district level Avishkar Research Mohotsav organized by Deshbhakt Anandrao balwantrao Naik Arts & Science College, Chikhali and Shivaji University, Kolhapur on 27th Dec. 2017.

Worked as examiner for “Agriculture and animal husbandary” in Avishkar Sanshodhan Mohotsav 2018-19 at Y. C. Institute of Science College, Satara on 20/12/ 2018

Worked as Team Manager during 10th South Asian Universities Festival-2017 at Devi Ahilya University, Indore on 28th Feb. to 4th Mar. 2017.

Organized University level one day workshop on “Save girl child campaign: One identity” under Director, Student’s Development, Shivaji University, Kolhapur on 22nd Dec. 2017

President, Shivaji University Post-Graduate Teacher’s Association (2009 – 2011 and 2013 – 2015).

Fellow of the Indian Association for Angiosperm Taxonomy in 2014.

DR. S. A. Patil: Worked as a Coordinator for Avishkar Research Competitions (for 2015-16)

Co-ordinator for Function organizing committee in Department of Botany, 2017, Yuvamahotsav- 2017 organized by Shivaji University, Kolhapur.

Working as NSS Co-ordinator for Department of Botany, Shivaji University, Kolhapur since June 2017 till date
Worked as the Departmental Coordinator for "Beti Bachao Abhiyan- 2018" organized by Shivaji University, Kolhapur- date 24th January, 2018
Worked as a judge for "NVS National Science Exhibition 2018" on 25th of November, 2018.

Dr. K. B. Pawar: Worked as Teacher in Charge for Psychometric test conducted for Botany M.Sc. part I students on 15th February, 2019.

Worked as a member of Committee for UGC Scheme for Person with Disabilities in Shivaji University, Kolhapur since December, 2018

Dr. M. S. Nimbalkar

INTERACTION WITH FARMERS about plantation of aromatic plants for their essential oil extraction. Cultivation of local banana cultivars.

Dr. S.R. Yadav

Over 10,000 coloured slides (transparencies) covering of about 2500 species of wild flowering plants of Maharashtra and Western Ghats have been taken and personally maintained.

About 40 photographs of Indian plants have been published in series on, "World of Plants" by Asia Simbun Press, Japan.

Over 100 plant photographs of rare, endangered or botanically interesting plants have been published in various journals, magazines and research papers.

Majority of the plants endemic to Peninsular India, which occurs in Maharashtra, are photographed.

More than 500 photographs of angiosperms are published in various journal and books.

Prof. N. S. Chavan

Vice President of IWSA (Indian Women Scientist Association-Kolhapur Chapter) since 2008.

E.C. Member of SUPTA.

Organization of Lectures on the popularization of Science on behalf of IWSA

14) List of Distinguished Alumni.

Name: Prof. (Dr.) S.N. Pathan : Ex Vice Chancellor RTM University, Nagpur

Shri Dr. Govekar Ravikiran : Chief Conservator of Forests & Field

Name: Dr. G. R. Naik: Pro.Vice Chancellor Central University, Kalaburagi.

Dr. Supate A. R. Sr. Scientific Officer (HQ), Oct 2004 - Till date Project Leader,

Zoning Atlas Project, Maharashtra Pollution Control Board

Shri. Suresh Thorat: Ex. Deputy Chief Conservator of Forest, Gov. of Maharashtra

Dr. Vinayak Kedage: Officer In Charge / Lab Director, Regenerative Medical Services Pvt. Ltd.

(www.regrow.in / www.babycell.in)

Dr. Sunetra Patil- Maharaj: Director Vasantao Naik Government Institute of Arts & Social Sciences, Nagpur.

Dr. S.B. Bhamburdekar: Principal, Krishna mahavidyalaya, Rethare Bk. Post. Shivnagar Tal. Karad Dist. Satara.

Dr. D. D. Kurlapkar: Principal S. B. Khade Mahavidyalaya Koparde

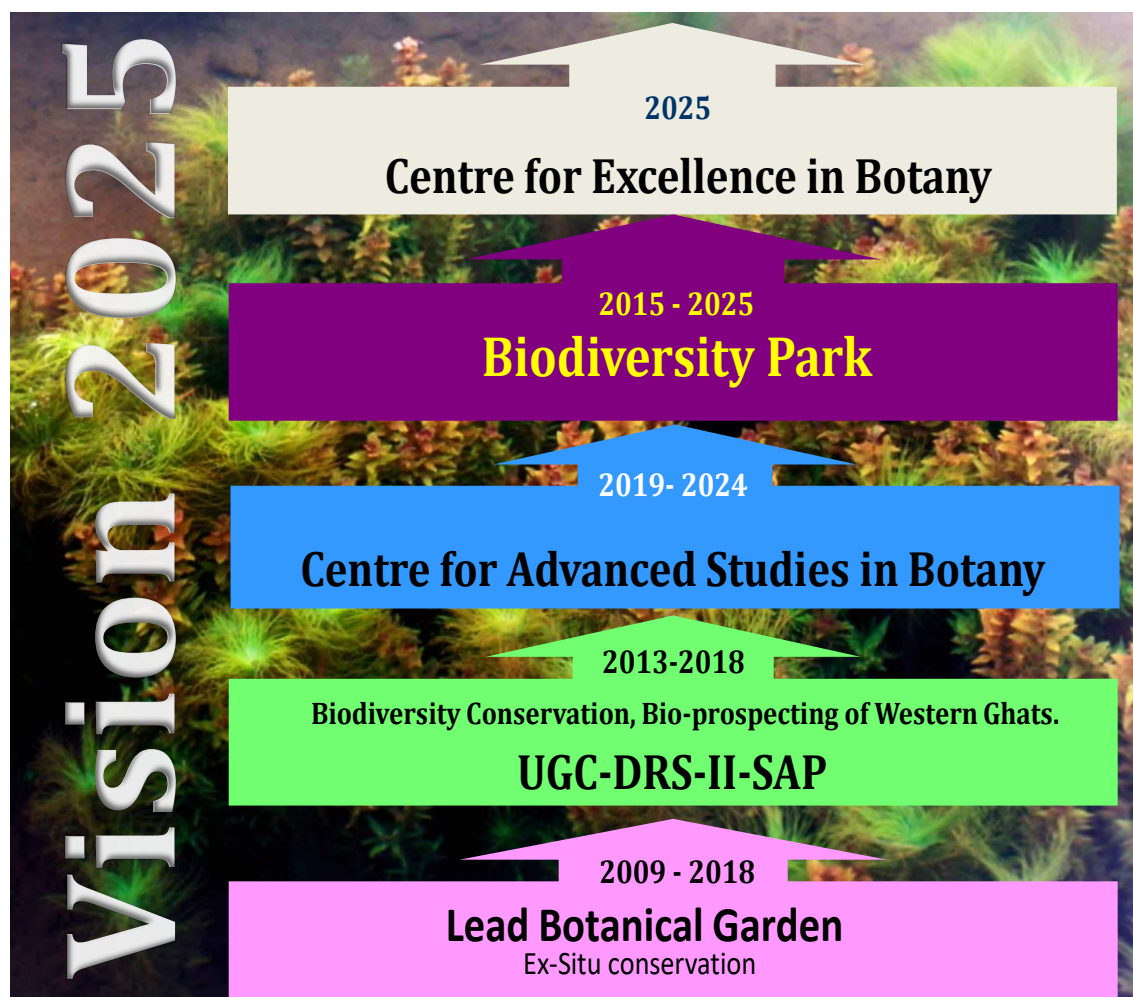
Dr M. M Sardesai: Professor at Savitribai Phule Pune University, Pune

Dr. C. V. Murumkar: Principal Tuljaram Chaturchand College of Arts, Science & Commerce, Baramati.

Dr. NADAF ALTA FHUSAIN B.: Professor Savitribai Phule Pune University, Pune.

Dr. Neetin Desai: Director Amity University Mumbai (2014- till date)

15) Future roadmap of the department.



16) Media coverage of Department : file enclosed