

Anand Charitable Sanstha Ashti's

ANANDRAO DHONDE ALIAS BABAJI MAHAVIDYALAYA

(Arts Commerce and Science)

KADA TAL. ASHTI DIST. BEED (M. S.) INDIA

DEPARTMENT OF BOTANY

PROFILE



January 2023

Scope and Importance of the Subject:

After completing graduation in Botany student can appear for various competitive examinations and PG courses like

- ❖ Indian Forest Services, Indian Administrative Services conducted by UPSC.
- ❖ PG courses like M.Sc. (Botany), M.Sc. (Biotechnology), M.Sc. (Molecular Biology), M.Sc. (Genetics).
- ❖ Amongst the careers available to a person who enjoys outdoors are positions as an ecologist, taxonomist, conservationist, and forester.
- ❖ Student can obtain specialization in plant breeding, plant pathology, agronomy, and horticulture.
- ❖ Number of employments available in pharmaceutical companies, seed companies, biotechnology firms, scientific publishers and biological supply.

Vision of Department:

Achieve academic excellence in basic and applied aspects of plant sciences. To make aware of natural resources and environment and the importance of conserving it.

Introduction: The College was started considering the need by the time to provide science and technological education to rural students in and around Kada. There was no any science faculty in Ashti taluka before this college. The department of **Botany** runs UG courses. The faculty members of this department actively involved in various academic as well as extra-curricular, social activities. All faculty members are actively participating in various national conferences, seminars, workshops etc.

Dr.G.M.Pathare and Dr.Smt.S.A.Khedkar Professor of this department working since 1993. For the development of this department Principal Dr. H. G. Vidhate and Management contributed timely. Faculty of the department is actively engaged in research since 2004. Dr. G.M Pathare awarded Ph. D. degree in 12th September 2005 and Dr. Smt S.A.Khedkar awarded Ph. D degree in 14th October 2005. They published their research papers in national and international journals, conferences, seminars and workshops. Department runs B.Voc. Nursery Degree course since 2020-21. The department encourages students to perform various projects, seminars, tour visits. Department organized National Webinar in 10th August 2020 on Biodiversity and Its Conservation. In the month of July & August department arranged camp for tree plantation Programme in College campus. Tree plantation program was also organized in collaboration with 'Broadcasting Ministry of Government of India, Regional People Contact Bureau, Ahmednagar' under Swatch Bharat Abhiyan and department of Botany, Ananrao Dhonde Alias Babaji Mahavidyalya, Kada on 28/10/2021.

Programs Specific out comes:

- Student acquires knowledge about general characteristics, morphology, anatomy of Pteridophytes, Gymnosperms and fossil.
- Knowledge and Understanding of the range of plant diversity in term of structure and function. Plant classification and the flora of Maharashtra.
- The students learn about general characteristic, morphology, reproduction and economic importance of algae, fungi and Bryophyte.
- The students become familiarize themselves with Angiosperms like its Taxonomy, Morphology, Embryology and Anatomy.
- The student becomes competent in understanding plant physiological process, plant metabolism and ecology, phytogeography.
- The student acquires preliminary knowledge of cell biology, Genetics, molecular biology and Biotechnology.
- Genetics provides knowledge about laws of inheritance, various genetic interactions, chromosomal aberrations & multiple alleles.
- Cell biology gives knowledge about cell organelles & their functions.

Course out comes:

Name of the course	Course Outcomes
Diversity of cryptogams	Knowledge and understanding about plant diversity. Career opportunities and job opportunities. After completion of this course the students are expected to describe the cryptogams, plant diversity like viruses, Bacteria, Lichens Algae and Fungi. Understand the useful and harmful activities of algae. Know the economic importance of fungi. Understand the economic importance of the bryophytes. Know the economic importance of Pteridophytes.
Morphology of Angiosperm	It gives knowledge different plant families and species of Angiosperm plant and describe conservation method of different plants. Understand the habit of angiosperm plant body. Know the vegetative characteristics of the plants. Understand the plant morphology and basic taxonomy.
Histology, Anatomy and Embryology	After completion of this course students are expected to describe the morphology of angiosperm plant and its histology, Anatomy & Embryology. The general term, anatomy for the study of internal structure of plants. Understand the scope and importance of anatomy. Understand the normal and anomalous secondary growth in plants and their causes. Know various tissue systems.

Taxonomy of Angiosperms	Understand the systems of classification of Angiosperms, nomenclature and interdisciplinary approaches. Understand the general range of variations in the group of angiosperms. To learn about the characters of biologically important families of angiosperms
Plant Ecology	After completion the course the students are expected how to conserve soil and water. To understand how to control air, water and noise pollution. To know the structure and function of ecosystem. To understand the ecological pyramids. To know the adaptation of hydrophytes, xerophytes, epiphytes and halophytes.
Gymnosperm and utilization of plant	After completion of this course, students are well known about economic importance of Cycas, Pinus and Gnetum. To know the economic importance of gymnosperms. Understand the diversity of gymnosperms in India. To know the evolution of bryophytes, Pteridophytes and gymnosperms.
Plant Physiology	To understand the process of photosynthesis in higher plants with particular emphasis on light and dark reaction. To understand the plants and plant cells in relation to water. To know the concept of enzyme activity and general features of enzymes. To know importance and scope of plant physiology. To understand the plants and plant cells in relation to water.
Cell Biology and molecular biology	On completion of the course students of the course students are able to understand the eukaryotic cell cycle and mitotic and meiotic cell division. In this subject students will understand the cell at molecular level as well as how the process like replication of DNA occurred. Understand cell wall, plasma membrane, cell organelles and cell division. Understand the biochemical nature of nucleic acid and their role in living system
Diversity of Angiosperms	Accurate interpretation of collected information and use taxonomical information to evaluate and formulate position of plant in taxonomy. To understand plant morphology and basic taxonomy. Understand the major evolutionary trends in various parts of angiosperm plants. Understand the phylogeny of angiosperms – A general account of origin of angiosperms. Trace the history of development of system of classification emphasizing angiosperm taxa.
Genetics and Biotechnology	Students are able to understand Mendel's law of inheritance. Students understand different type of genetic interaction. Students know about genetic engineering. To study phenomenon law of dominance, laws of segregation and independent assortment. To understand different types of genetic interactions, incomplete dominance, co-dominance. Understand the fundamental of recombinant DNA technology. Understand tissue culture techniques.

1. **Date of Establishment** : 23rd July 1990
2. **Built up Area** : 95.25 Sqm
3. **Level of Programmes Run by department** :UG (B.Sc. Degree Course)
4. **Options available for students to select the group with Botany:** Chemistry, Zoology
5. **Temporal plan of the academic work :** Semester System
6. **Faculty Profile:**

Sr. No.	Name	Qualification	Date of Appointment	Designation	Specialization
1	Prof.G.M.Pathare.	M.Sc.Ph.D	27/07/1993	Professor	Cytogenetic &Plant Breeding
2	Prof.Smt.S.A. Khedkar	M.Sc.Ph.D	27/07/1993	Professor	Plant Pathology
3	Shri.S.S.Waghule	M.Sc. (NET)	01/10/2021	Assit.Prof. (C.H.B.)	Advance Medicinal Botany
4	Shri.A.A.Waghule	M.Sc	01/10/2021	Assit.Prof. (C.H.B.)	Plant Pathology

7. Current Year Time-Table UG (2022-23)

Period	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01	9.10 to 10.00	B. Sc. III Paper- XVI& XX (S.A.K.)	B. Sc. III Paper- XVI& XX (S.A.K.)	B. Sc. III Paper- XVI& XX (S.A.K.)	B. Sc. III Paper- XV & XIX (G.M.P.)	B. Sc. III Paper- XV & XIX (G.M.P.)	B. Sc. III Paper- XV & XIX (G.M.P.)
02	10 to 10.50	B. Sc. II Paper- VIII& XII (G.M.P.)	B. Sc. II Paper- VIII& XII (G.M.P.)	B. Sc. II Paper- VIII& XII (G.M.P.)	B. Sc. II Paper- VII& XI (S.A.K.)	B. Sc. II Paper- VII& XI (S.A.K.)	B. Sc. II Paper- VII& XI (S.A.K.)
03	11 to 11.50	B. Sc. I Paper- II&V (S.A.K.)	B. Sc. I Paper- II&V (S.A.K.)	B. Sc. I Paper- II&V (S.A.K.)	B. Sc. I Paper- I & IV (G.M.P.)	B. Sc. I Paper- I & IV (G.M.P.)	B. Sc. I Paper- I & IV (G.M.P.)

Practical Time Table (2022-2023)

Period	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01	12.30 pm to 3.30p m.	B. Sc. II Paper-IX and XIII Batch- A (S.A.K.)	B. Sc. II Paper X and XIV Batch -C (S.S.W.)	B. Sc. I Paper- III &VI Batch- F (G.M.P.)	B. Sc. I Paper- III &VI Batch- E (S.A.K.)	B. Sc. III Paper- XVII and XXI Batch- A (G.M.P.)	B. Sc. III Paper-XVIII and XXII Batch-C (A.A.W)
02	3.30 to 6.30 pm	B. Sc. II Paper X and XIV Batch -D- (G.M.P.)	B. Sc. II Paper-IX and XIII Batch- B (A.A.W)	B. Sc. I Paper- III &VI Batch- D (A.A.W.)	B. Sc. I Paper- III &VI Batch- B (S.S.W.)	B. Sc. III Paper- XVII and XXI Batch B (S.S.W.)	B. Sc. III Paper-XVII and XXI Batch- D (G.M.P.)

Practical Time Table (2022-2023)

Period	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01	12.30 pm to 3.30p m.	B. Sc. II Paper X and XIV Batch-A (S.S.W.)	B. Sc. II Paper-IX and XIII Batch -C (A.A.W)		B. Sc. I Paper- III &VI Batch- C (A.A.W.)	B. Sc. III Paper- XVII and XXI Batch-C (S.S.W.)	B. Sc. III Paper-XVIII and XXII Batch- A (S.A.K.)
02	3.30 to 6.30 pm	B. Sc. II Paper-IX and XIII Batch- D (A.A.W)	B. Sc. II Paper X and XIV Batch-B (S.S.W.)	B. Sc. I Paper- III &VI Batch - A (S.S.W.)		B. Sc. III Paper- XVIII and XXII Batch- D (S.A.K)	B. Sc. III Paper-XVIII and XXII Batch-B (A.A.W)

8. Intake capacity for students:

Programme	Class	Intake Capacity
UG	B.Sc.F.Y.	240
	B.Sc.S.Y.	240
	B.Sc.T.Y.	240

9. No. of Books in the Library: 904

- Reference Books:499
- Text Books:405

10. Student Strength during last Five Years

Year	Class	Category wise Admissions										Total		Gross total
		SC		ST		OBC		Gen		Others (VJ/NT& SEBC)				
		M	F	M	F	M	F	M	F	M	F	M	F	
2021-22	B.Sc. F.Y.	10	02	-	-	33	16	42	29	20	08	105	55	160
	B.Sc. S.Y	10	02	-	-	13	14	17	10	18	04	58	30	88
	B.Sc. T.Y	03	02	-	-	20	11	28	16	08	05	59	34	93
2020-21	B.Sc. F.Y	15	03	-	-	21	19	26	20	41	12	103	54	157
	B.Sc. S.Y	05	04	-	-	26	15	34	17	17	08	82	44	126
	B.Sc. T.Y	04	03	-	-	12	08	30	15	16	13	62	39	101
2019-20	B.Sc. F.Y.	05	03	-	-	26	18	43	24	19	11	93	56	149
	B.Sc. S.Y	04	05	-	-	11	12	33	21	17	15	65	53	118
	B.Sc. T.Y		03	-	-	10	06	20	19	05	08	35	36	71
2018-19	B.Sc. F.Y.	05	07	-	-	14	15	45	29	25	20	89	71	160
	B.Sc. S.Y		02	-	-	10	08	27	23	09	08	46	41	87
	B.Sc. T.Y	04	02	-	-	07	07	34	22	19	02	64	33	97
2017-18	B.Sc. F.Y.	05	02	01	-	14	14	37	32	14	14	71	62	133
	B.Sc. S.Y	03	04	-	-	11	11	37	23	20	04	71	42	113
	B.Sc. T.Y	03	03	-	-	19	14	25	26	08	11	55	54	109

11. Result Analysis during last five years

Year	Class	Semester	Students Appeared	Pass Class	Second Class	First Class	Distinction	% Result
2021-22	B. Sc. I	II	144	00	95	26	04	86.80
	B. Sc. II	IV	83	00	09	58	09	91.56
	B. Sc. III	VI	89	00	01	47	36	94.38
2020-21	B. Sc. I	II	129	05	10	53	44	86.82
	B. Sc. II	IV	110	02	18	17	57	85.45
	B. Sc. III	VI	87	00	01	13	62	87.35
2019-20	B. Sc. I	II	166	03	85	45	16	89.75
	B. Sc. II	IV	112	00	28	66	08	91.07
	B. Sc. III	VI	66	00	00	06	57	95.45
2018-19	B. Sc. I	II	153	07	69	50	07	86.92
	B. Sc. II	IV	79	00	24	39	13	96.20
	B. Sc. II	VI	85	00	02	67	14	97.64
2017-18	B. Sc. I	II	102	03	53	08	06	68.62
	B. Sc. II	IV	100	00	55	27	09	91.00
	B. Sc. III	VI	96	00	05	66	19	93.75

12. Laboratory Equipments:

Sr. No.	Laboratory Equipments	Numbers	Sr. No.	Laboratory Equipments	Numbers
1	Simple Microscopes	12	14	Printer	01
2	Compound Microscopes	24	15	Scanner	01
3	Binocular Microscope	03	16	Metal Herbarium Press	01
4	Tilak Air Sampler	02	17	Autoclave	3
5	Rain gauze	1	18	Laminar Air Flow	01
6	Hot Air Oven	1	19	Trinocular Microscope	01
7	Slide Projector	1	20	Digital pH Meter	01
8	Camera (Nicon,Sony)	1	21	Digital Colorimeter	01
9	Weight Balance	1	22	Charts	54
10	Electronic Weight Balance	1	23	Models	12
11	Centrifuge Machine	02	24	MuseumSpecimens.	30
12	Laptop (Dell)	01	25	Hygrometer	01
13	Hair Dryer	01	26	Barometer	01

13. Guest Lectures Arranged: 10

Sr. No.	Name of the Guest	Topic	Date
1	Dr.Smt.Sutar S.S.	Chromosomes	19/09/2017
2	Dr. Talekar S.M.	Transpiration	04/01/2018
3	Dr. Patale S .S.	Use of Trichoderma	11/08/2018
4	Dr. Kardule S.R.	Soil Erosion& Conservation	12/01/2019
5	Dr. Smt. Ahuja S.R.	Process of Fossilization	12/12/2020
6	Dr. Smt. Bhosale S.S.	Endemism& Hotspots	17/08/2019
7	Dr. Khetmalas P.N.	Structure of Eukaryotic Cell	13/01/2021
8	Dr. Smt. Sukte S.M.	Application of Biotechnology	24/04/2021
9	Dr. Pawar S. M.	Impacts of Climatic Factors	04/10/2021
10	Dr. Smt. Kshirsagar J.S.	Sex-linked Inheritance	12/03/2022

14. Use of ICT by Faculty:

Name of the Faculty	Type of ICT Developed/ Used		
	Class	PPT	PDF
Prof. G.M Pathare.	B.Sc.I	25	21
	B.Sc.II	20	19
	B.Sc.III	25	23
	Total	70	63
Prof.Smt.S.A.Khedkar.	B.Sc.I	09	05
	B.Sc.II	08	07
	B.Sc.III	08	06
	Total	25	18

15. Conference / Seminar / Workshop/ Webinar Organized by department during last five years:

Sr. No.	Title of Conference / Symposium / Workshop	Level	Period
1	Biodiversity and Its Conservation	National	10/08/2022

16. Publications of faculty during last five years:

Sr. No.	Name of the Teachers	Year	Number of research papers published		Number of research papers presented
			International Journals/ E-Journal	National Journals	
1	Prof. G.M.Pathare.	2021-22	03	-	03
		2020-21	02	-	-
		2019-20	10	-	05
		2018-19	03	-	02
		2017-18	04	01	03
		Total	22	01	13
2	Prof.Smt. S.A.Khedkar.	2021-22	01		01
		2020-21	03		03
		2019-20	03	04	07
		2018-19	03		03
		2017-18	01	03	04
		Total	11	07	18

Total Paper Publication: 41

Total Paper presented: 31

17: Study Tours Arranged By Departments

Sr.No.	Year	Date	Place of Visiting
1	2019-20	07/02/2020	C.S.P.A.College of Agriculture,Ashti
2	2019-20	29/01/2020	College of Food Technology Ashti
3	2018-19	07/02/2019	H.U.Gugale Biotech Lab Jamkhed And Choundi
4	2017-18	05/10/2017	Sautada and MahadeoDara Forest

18. Conferences /Seminars / workshops /Webinars attended by faculty during last five years

Name of Teacher	Year	Regional /State	National	International	Total
Prof. .G.M Pathare.	2021-22	03	08	05	16
	2020-21	02	27	06	35
	2019-20	01	37	06	44
	2018-19	-	02	-	02
	2017-18	-	03	01	04
	Total	06	97	18	121
Prof.Smt.S.A.Khedkar	2021-22	07	10	02	19
	2020-21		12	03	15
	2019-20		14	03	17
	2018-19		03	01	04
	2017-18		03		03
	Total	07	42	09	58

19. Participation Faculty in OC/ Induction Program, RC, FDP/ STC, etc. during last five years

Sr. No.	Name of the Faculty	Year	FDP/ STC
1	Prof. G.M Pathare.	2021-22	01
		2020-21	05
		2019-20	09
		2018-19	01
		2017-18	-
		Total	16
2	Prof. S.A Khedkar	2021-22	01
		2020-21	08
		2019-20	01
		2018-19	00
		2017-18	-
		Total	10

20. Resource Person /Chaired Session/ Guest Lectures in Conferences / Symposium / Workshop

Sr. No.	Resource Person /Chaired Session/ Guest Lectures	Level	Topic	Place	Date
1	Prof.G.M Pathare (Resource Person)	National	Role of Microorganism in Agriculture & Plant Science for Sustainable Development	Smt S K Gandhi Arts and Amolak College Kada	16/02/2018
2	Prof.Smt.S.A. Khedkar. (Resource Person)	National	“Impact of fruits and vegetables on General Immunity”	Arts, Commerce and Science, Ashti	05/03/2021
		State	Women’s Law’s	Arts, Commerce and Science, Ashti	13/10/2018
		National	Role of Microorganism in Agriculture & Plant Science for Sustainable Development	Smt S K Gandhi Arts and Amolak College Kada	16/02/2018
		State	Effects of Herbicide on Plants and soil	Bhagwan Mahavidyala, Ashti	03/01/2019

21. Publications of Faculty- Books.

Name of the Faculty	Book/ Chapters / Articles	Title of Book	Publisher Details with ISSN/ISBN	Published Year	Sole/ Co-author
Prof.Smt. S.A .Khedkar.	BOOK	Plant Breeding & Seed Techonology	International Publication 6A/540,Avas Vikas, Hanspuram Kanpur-208-021 ISBN No-978-93-90775-33-0	2021-22	Dr.Sangeeta Ahuja Dr. Vishal Wakode Dr. Suman Khedkar

22. Research Supervisor and their Students

Sr. No.	Name of the Research Supervisor	Name of the Researcher	Date of Confirmation	Topic	Status
1	Prof.Smt. S.A Khedkar.	Mule Akashy Mahadev	2021-22	Floristic Composition of Bhor, Velhe And Purandar Tehsil, Pune MS, India	on-going
		Varpe Subhas Nanasaheb	2021-22	Biochemical Characterization, anti-Cancerous activates and tissue culture approaches of ChlorophytumTuberosm	on-going
		Padwal Anup Dashrath	2021-22	Phytochemical investigation and pharmacological properties of four edible vegetables from Northern region of Ahmednagar District (M.S) India	on-going
		Patole Kiran Nivrutti	2021-22	Studies on Fungal Mycoflora on Guava roots	on-going

23. Eminent Personalities visited

Sr.	Name	Designation	Place
1	Dr. Ashok Chavan	Professor and Head.	Dept. Of. Botany Dr.B.A.M.U. Aurangabad
2	Prof. B.N.Pande	Ex Professor and Head	Dept. of Environmental Science. Dr. B. A. M. Uni. Aurangabad
3	Dr. Vijay S. Kothekar	Ex Professor and Head	Dept. Of. Botany Dr.B.A.M.U. Aurangabad
4	Dr. Milind Jadhav	Ex.B.O.S. Chairman Professor and Head.	Dept. Of. Botany. Sir Sayyed College, Aurangabad
5	Dr.Navanath Kashid	Professor	Vasant Mahavidyalya Kaij, Beed
6	Dr.Mukand Kulthe	Professor and Head	Dept.Of.Botany. Millind Science College, Aurangabad

24. Awards/ Recognitions received by Students and faculty.

Sr. No	Name of the Faculty	Name of the activity	Name of the Awards/ Recognition	Name of the Awarding government/ government recognized bodies
1	Prof.Smt.S.A.Khedkar	Research	A.P.J.Abdul Kalam	Universal research Ground
		International Women's Day	NariAsmita Awards	Srjjana Vangmaya Parishad , Bhopal.
		Human Rights Day	Swami Vivekanand Siksha Bhushan Purasakar	SrjjanaVangmaya Parishad , Bhopal

25. Prominent Alumni of the Department

Sr.No	Name of Alumni	Designation
1	Dr.Santosh M.Talekar	Associate Professor
2	Dr.Pandurang .S.Anarse	Associate Professor
3	Sagar.S.Waghule	Assistant Professor
4	Amar.A.Waghule	Assistant Professor
5	Satayvan Sasane	Teacher
6	Sagar Sangale	Assistant Professor
7	Jaydeep Joshi	Teacher
8	Ganesh Tandale	Teacher
9	Sharad Waghmode	X-Ray Technician
10	Bharat Pandule	Constable in BSF
11	Amit Deshmukh	Quality Department, Ajit seeds Co. Aurangabad
12	Babalu Shaikh	Lab technician
13	Ranjit Sake	Medical Representative

26.MoU and Collaborations of the Department –

Botany department has collaboration with three institutions for Students and faculty exchange, academic deliberation and collaborative research activities

- Gangai Pharmacy College Kada Tal Ashti,Dist-Beed
- Chhatrapati Shahu,Phule,Ambedkar College of Agriculture Ashti,Dist-Beed
- Taluka Agriculture Officer Ashti,Dist-Beed

27. Academic and Administrative Positions of Faculty

Prof.G.M.Pathare.

- Head of Department
- Paper setting Semester V & VI
- CAS Subject expert
- Member of Alumni Parent Teacher Association
- Member of Governance, Leadership and Management
- Life membership of Indian Aerobiological Society

Prof .Smt.S.A. Khedkar

- Chairmen -Mahila Sexual Harassment & Grievance Committee
- Co-ordinator – B. Voc. Nursery A. D.CollegeKada
- Member of Best Practices & Extension Activities..
- Member of Grievance& Discipline College Committee
- Chairman of Affiliation Committee.
- Life membership of Academic & Research Conclave
- Life membership of Indian Aerobiological Society
- Life membership of Society of Life Sciences
- CAS Subject expert, Paper setting.

28. Extension / Co-curricular Activities run by department:

- Participation in Tree plantation
- Field Visits with Students
- Member of Green Army
- Participation in Environment & Water conservation
- Participation in Study tours
- Participation in N.S.S. activities.
- Organize Ozone Day Programmee
- Arrange Students Seminars

29. Best Practices:

- **Soil testing:** Soil testing services provide free of cost.
- **Green Auditing: a)** To enumerate the number of trees & plants available in the campus. **b)** Sustainable development of greenery in the campus.
- Preparation of woolen model and preservation of plant specimen in the form of **herbarium.**

30. Department Achievements

Five Alumni of our department are lecturer in Senior College.

One Alumni (Sagar Waghule) of our department qualified NET exam.

Forty one research papers published in reputed National & International Journals.

31. SWOC analysis

Strength:

- Faculty is well qualified & research oriented.
- Availability of P.G. teachers and guides
- Engaged in extension activities.
- Well equipped lab.
- Well established botanical garden with medicinal plants
- Participation of faculty in National, International Scientific events for knowledge up gradation.

Weakness:

- Insufficient extensive activities for student's establishment support

Opportunity:

- Degree student have opportunities in forest department, different seed company, tissue culture laboratory.
- Students have opportunities in Nursery, Field Botanist, Plant biochemist, Molecular biologist, Environmental consultant, Green house manager and Ecologist.
- Degree candidates have opportunities in Food Company.
- Aware farmers about advanced technology in farming.

Challenges:

- To enhance self-reliant among the students.
- Syllabus is more theoretical based. Needs to be more skill based
- To strengthen national & international collaboration.
- To strengthen collaborative research & enhance quality of higher education.

32. Future Plans:

- To submit of minor & major research projects proposals.
- To start short courses on Mushroom & Spirulina cultivation
- To run P.G. courses.
- Organization of Seminars, Workshops on Global warming.
- Guidance regarding organic farming.

PHOTO GALLERY

Botany Excursion tour



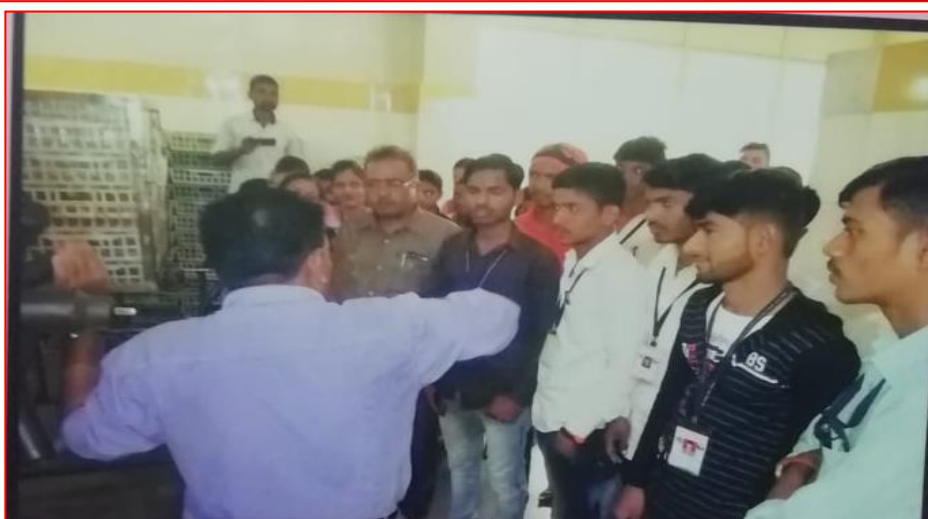
**Study Tour Visits College of Food Technology,
Ashti.**



Study Tour Visits C.S.P.A.College of
Agriculture,Ashti



Study Tour Visits at Sautada Forest



Study Tour Visits at **Chondi** and **Gugale**
Biotech Lab Jamkhed

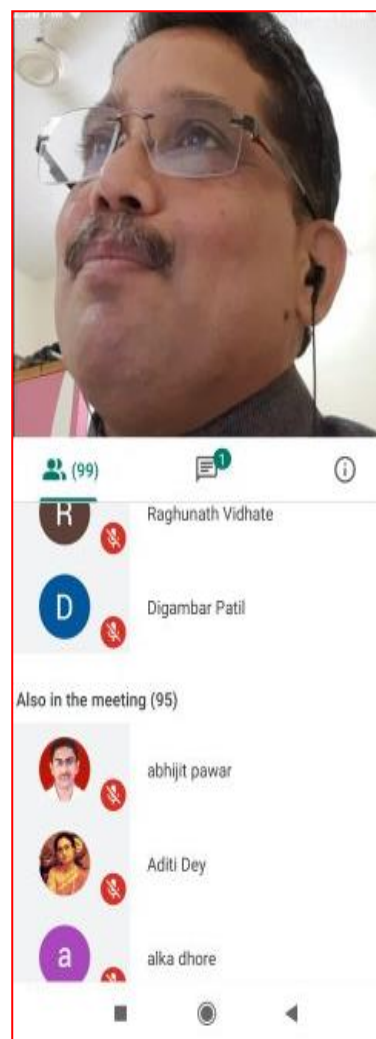


Study Tour Visits at **Chondi** and
Gugale Biotech Lab Jamkhed

Field Visits of B.Sc. Students at Gangai Pharmacy College Kada

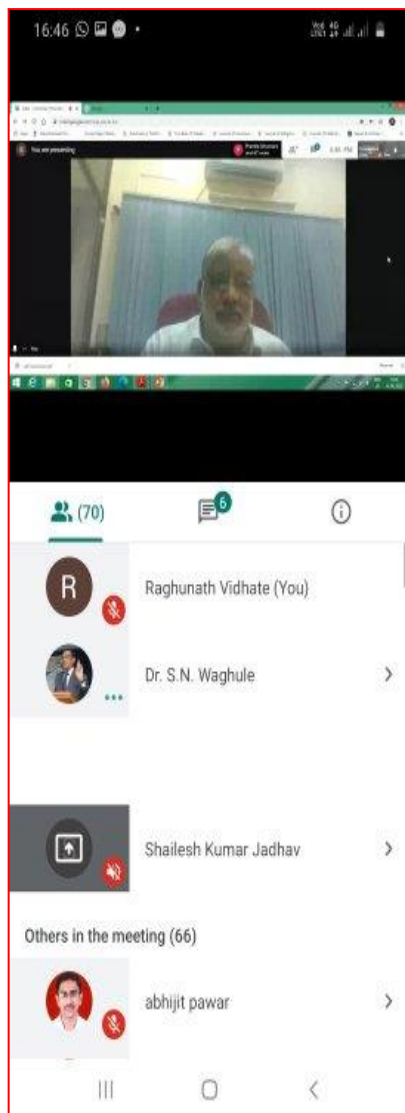


NATIONAL WEBINAR ON BIODIVERSITY & ITS CONSERVATION



Resource Person **Prof.Arvind Dhabe**, Head
Dept.of.Botany.Dr.B.A.M.University,
Aurangabad

Chief Guest **Prof.B.B.Waykar** Dean
Faculty of Science & Technology,
Dr.B.A.M.University, Aurangabad



Resource Person **Prof. Shailesh Jadhav**
 (Dean, Faculty Life Science, School of
 Studies in Biotechnology Pandit
 Ravishankar Shukla University, Raipur
 (C.G.)



Resource Person **Prin. Rangnath
 Aher** (New Arts,Commerce &
 Science
 College,Parner,Dist.Ahmednaga)

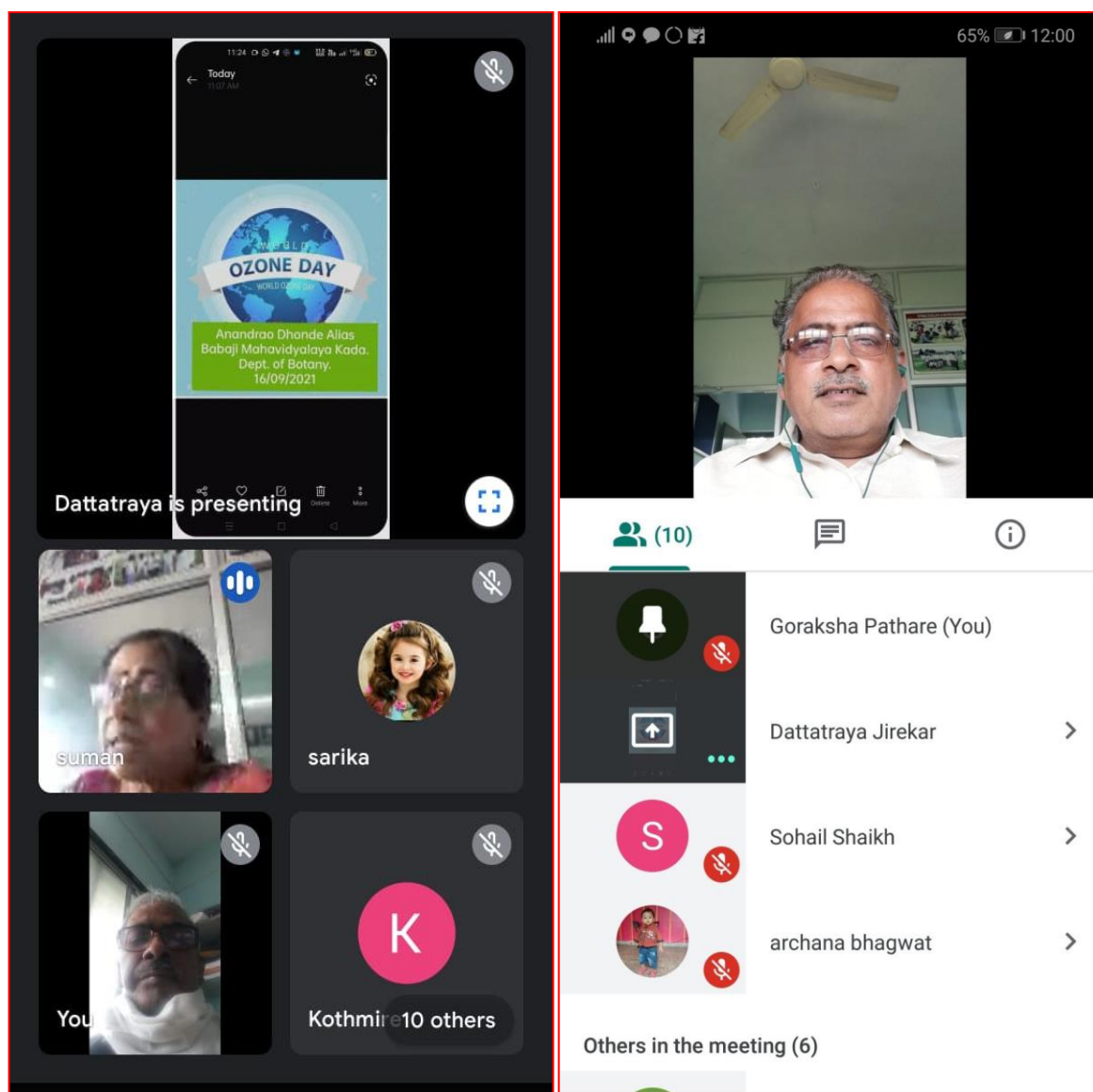
Departmental Co-curricular Activities



Wild Life Conservation



International Ozone Day



International Ozone Day through Online Mode

Department Best Practice

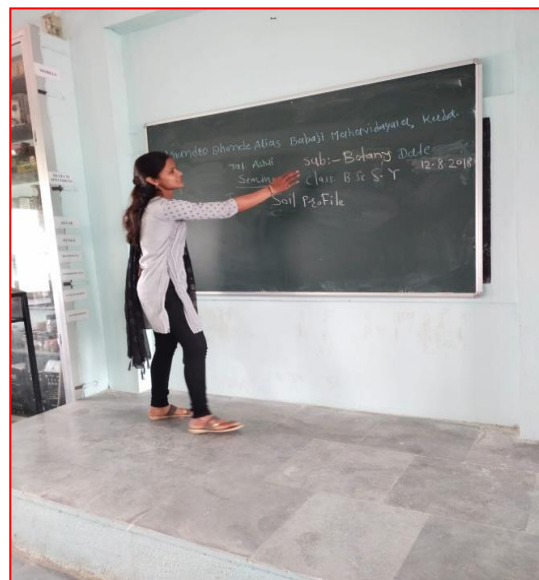
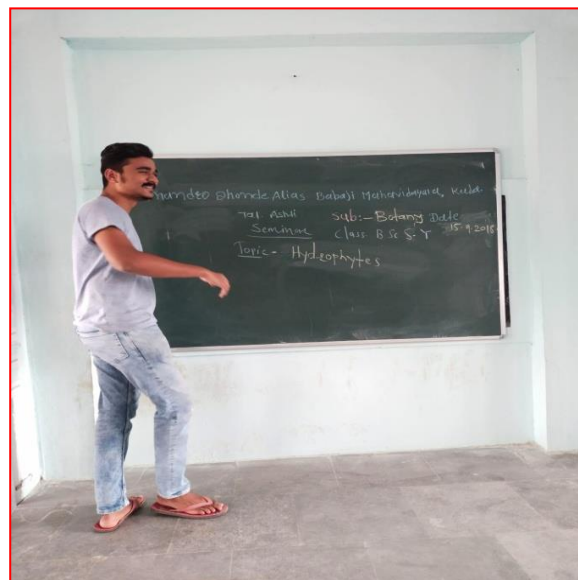
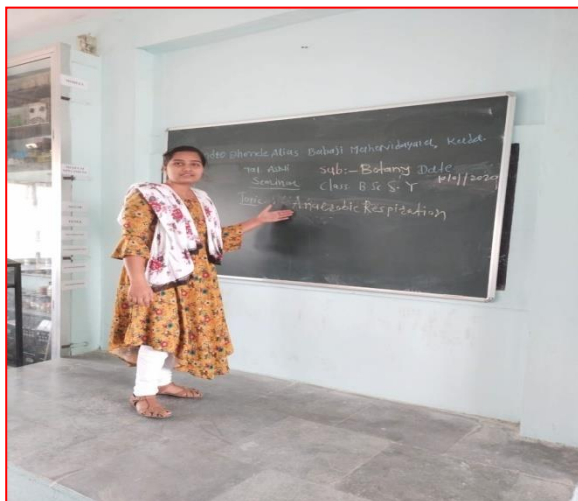
Soil Testing



Collection of Soil Sample



Student Seminar and Group Discussion



Tree Plantation in College Campus







Tree Plantation Programmee Outside College Campus



Laboratory Equipments



Laminar Air Flow

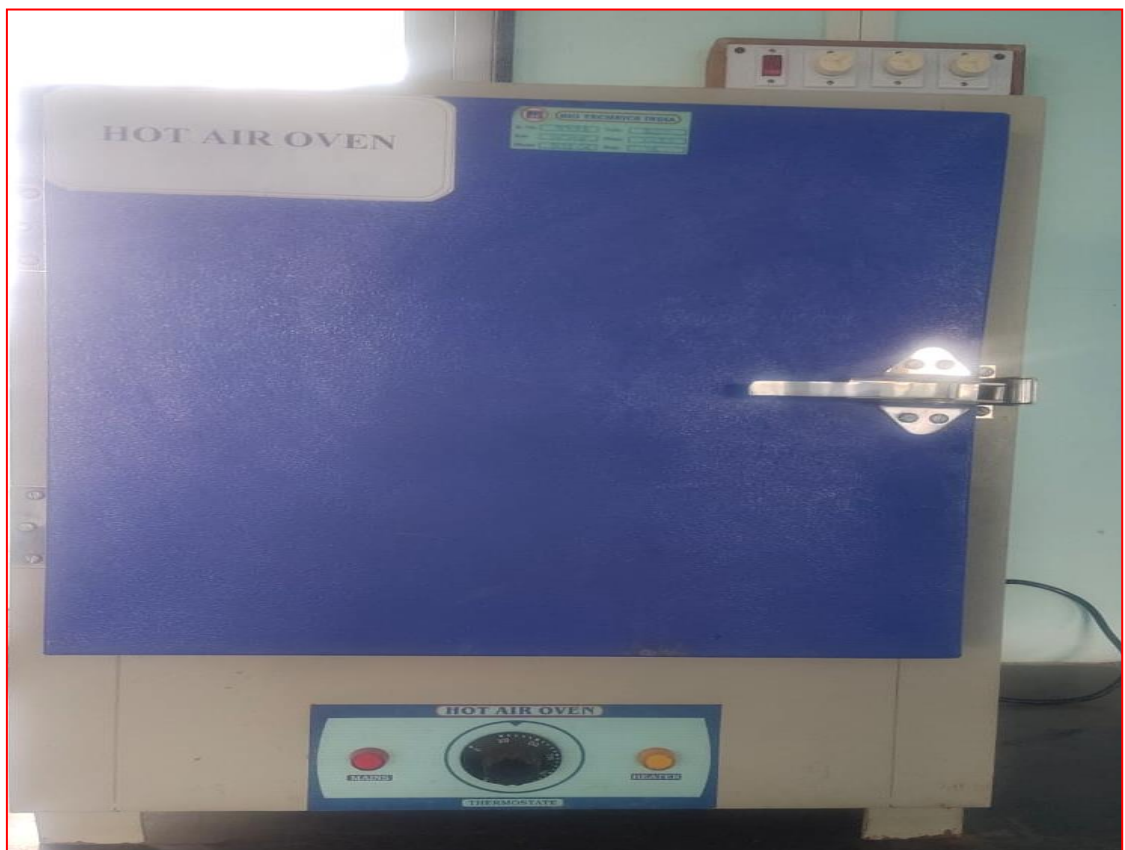


Slide Projector





Laminar Air Flow



Hot Air Oven



Trinocular Microscope



Binocular Microscope



Digital Photometer

