



Pathri Taluka Shikshan Prasarak Mandal, Manwat

**KATRUWAR ARTS, RATANLAL KABRA SCIENCE AND
B.R.MANTRI COMMERCE COLLEGE, MANWAT**

Pin-431 5505, Dist. Parbhani (M.S.) India.

Department of Botany

WEL- COMES

NAAC PEER TEAM

PROFILE AND EVALUATION REPORT

Department of Botany

Introduction: Pathri Taluka shikshan Prasarak Mandal was established in 1972.

Botany department was started in 1972. Botany department built up area is 116

sq.m. Dr. L. D. Punde was the first Head of department. Dr. N. N. Kale was

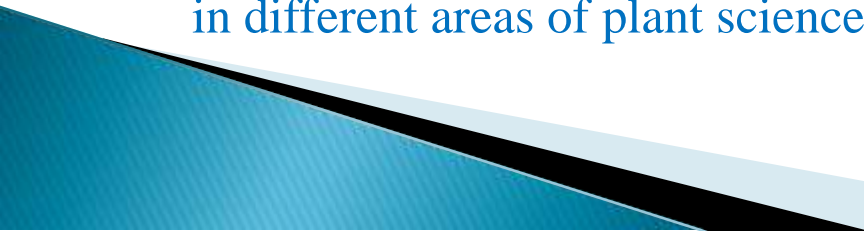
Reader and IInd head department of Botany between 2002 and 2013. At present,

Dr. K.S. Kadam, Professor and Head of the department since 2014 . Botany

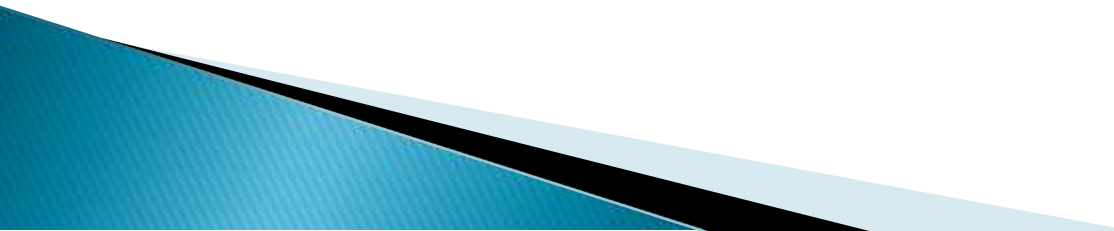
department is having botanical garden needed for practical as well as ornamental

purpose.

THE DEPARTMENT's GOALS:

- ▶ The preparation of specialists in Botanical characterized by the following capabilities:
 - ▶ 1 - Innovation in research and study to qualify to be appointed as research associate in universities.
 - ▶ 2 - The ability to apply and analyze as laboratory technician and an assistant researcher at the university.
 - ▶ 3 – Qualified to work as teachers in the Ministry of Education.
 - ▶ 4 - Qualified to work as laboratory technicians in laboratories and medical centers in government and private hospitals.
 - ▶ 5 - Qualified to work as researchers in the Ministry of Agriculture and the National Commission for Wildlife Conservation and Development.
 - ▶ To contribute effectively to the overall development through scientific research in different areas of plant science..
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MISSION :

- ▶ The department of Botany is committed to produce high standard graduates of B.Sc. level with the capacity and capability to conduct research in different areas of botany such as Plant Physiology, Taxonomy, Genetics, Cytology, Plant Pathology, Medicinal Plants etc.
 - ▶ We are maintaining high level of integrity and responsibility at individual and departmental level and producing well trained manpower to participate in the development of country and nation
 - ▶ Development of world class human resources for the relevant Research Institutes of the Council for Scientific and Industrial Research (CSIR) Government Ministries, Departments, agencies such as the Ministries of Lands and Forestry, Agriculture, Science and Environment, Education and the Non-Governmental Organizations (NGOs) and the private sector.
 - ▶ 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.
 - ▶ Our mission is to foster an environment of excellence by attracting and supporting the outstanding students, faculty and staff needed to sustain our vision.
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Objectives :

- ▶ To provide quality education in the fields of Botany, Genetic Engineering, Plant Pathology, Molecular Biology and other related fields
- ▶ To encourage research activities, exploring variety of technically feasible projects having socio-economic importance
- ▶ To produce quality manpower that can fulfill the needs of tomorrow and compete in national and international area of research and development
- ▶ To create awareness among the students regarding self employment and generation of other sources of the income through modern farming.
- ▶ To promote and create the students for higher education and research aptitude.
- ▶ To create sense of ethical moral values and social temperament among the students for good citizens.
- ▶ To conduct Group discussion, seminars, Symposia, Science Exhibition and Interview technique.
- ▶ To develop skill in practical work, experiments, equipments and laboratory use along with collection and interpretation of plants material data

Department Highlights :

- ▶ Organized Two Day State level conference on “Recent Trends In Bioenergy Conservation and Human Welfare” on 1 & 2 Feb. 2003
 - ▶ Miss Rohini Udawant Stood merit first in Botany subject in S. R. T. M. University, Nanded and got “ Dr. S. R. Reddy Gold Medal Prize in 2009 – 2010”
 - ▶ Organized Two Days National Conference on “ Water Conservation and Its Management” on 14 & 15 Dec. 2013.
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PROFILE OF THE FACULTIES

Sr. no.	Names	Qualification	Designation	Teaching Experience
1	Dr. K. S. Kadam	M. Sc., Ph. D.	Professor and Head	20
2	Dr. Smt. S. G. Sawant	M. Sc., Ph. D.	Assit. Professor	08

Faculty Development Programme

Dr. Smt. S. G. Sawant (2018 - 2023)

- ▶ Orientation Course : 01
 - ▶ Refresher Course : 03
 - ▶ Short Term Course : 06(Online)
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Participated/Attended : Seminar/ Conference/Workshop

Sr. no.	Name	2018 – 23	Total
1	Dr. K. S. Kadam	02	23
2	Dr. Smt. S. G. Sawant	21	44

Research Paper Published in Journal

Sr. no.	Names	2018-2023	Total
1	Dr. K. S. Kadam	10	20
2	Dr. Smt. S. G. Sawant	03	08

Course offered in The Department

Three Year Degree Course B. Sc.

Sr.	Semester	Paper no	Title of paper
B. Sc. FY			
1	Semester-1	I (Theory)	Viruses, Bacteria, Fungi, Algae, Lichen and Mycorrhiza
2	Semester-1	II (Theory)	Plant Ecology, Phytogeography and Environmental biology
3	Semester-II	III (Theory)	Bryophytes, Pteridophytes, Gymnosperm and Paleobotany
4	Semester-II	IV (Theory)	Taxonomy of Angiosperm
5	Annual	V (Practical)	Based on Theory paper I, II, III & IV

B. Sc. SY

6	Semester-III	VI (Theory)	Plant anatomy
7	Semester-III	VII (Theory)	Plant Physiology and Biochemistry
8	Semester-IV	VIII (Theory)	Plant Embryology
9	Semester-IV	IX (Theory)	Plant metabolism and Biotechnology
10	Annual	X (Practical)	Based on Theory paper VI & VIII
11	Annual	XI (Practical)	Based on Theory paper VII & IX

B. Sc. TY

14	Semester-V	XII (Theory)	Cell and Molecular biology
15	Semester-V	XIII (Theory)	Plant Pathology -I
16	Semester-VI	XIV (Theory)	Genetics and Plant Breeding
17	Semester-VI	XV (Theory)	Plant Pathology -II
18	Annual	XVI (Practical)	Based on Theory paper XII & XIV
19	Annual	XVII (Practical)	Based on Theory paper XIII & XV

Skill Enhancement Courses (SEC) :

B. Sc. S. Y. :

- ▶ Fruit and Vegetable Processing
- ▶ Bio- Fertilizers

B. Sc. T. Y. :

- ▶ Medicinal Plants Product Preparation Skill
 - ▶ Herbal drug Processing
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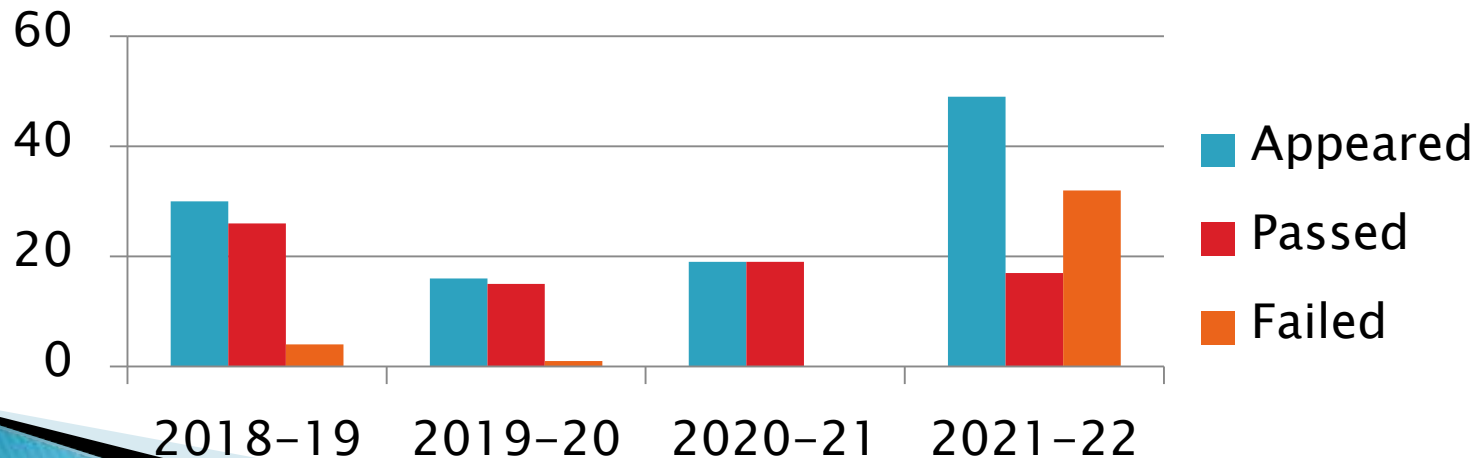
Student Strength (2018 – 2023)

IV Cycle Accreditation (2018-2024)									
Year	B. Sc. First Year			B. Sc. Second Year			B. Sc. Third Year		
	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
2018-19	36	41	77	01	17	18	08	22	30
2019-20	29	54	83	03	17	20	00	16	16
2020-21	12	30	42	21	33	54	03	17	20
2021-22	06	14	28	12	25	37	20	32	52
2022-23	04	39	43	01	13	14	04	19	23
2023-24	04	22	26	01	11	12	05	07	12

Results : 2018 – 2023

RESULT – B. Sc. T. Y.

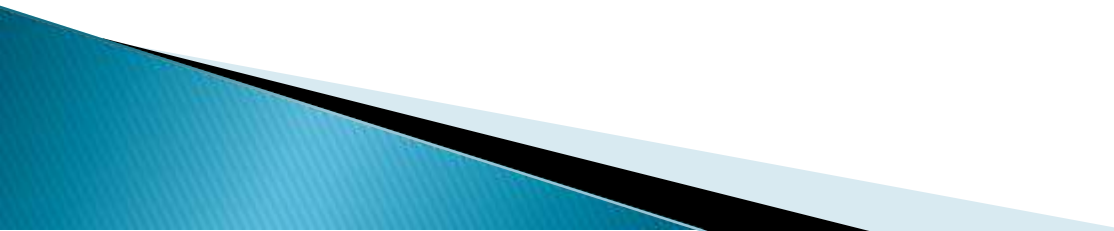
Year	Appeared	Passed	Failed	Percentage
2018-19	30	26	04	86.66
2019-20	16	15	01	93.75
2020-21	19	19	00	100
2021-22	49	17	32	34.69
2022-23	23	17	06	73.91



Internal Evaluation Methods(CA):

- **Class Test**
 - **Seminar**
 - **Tutorial**
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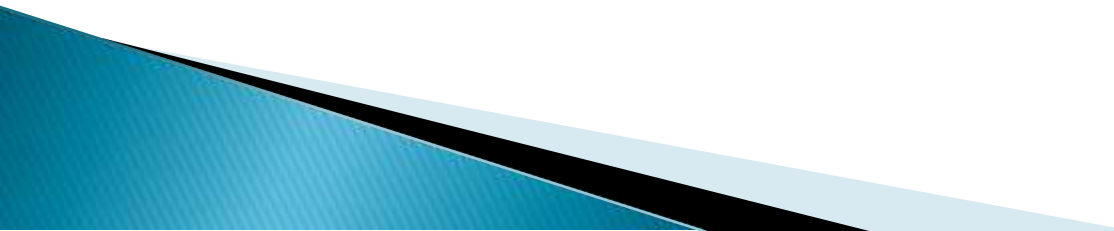
Teaching Learning Methods

- ▶ Experimental : Practical Experiments in Laboratory
 - ▶ LCD Projector used in Teaching
 - ▶ Use of YouTube
 - ▶ Use PPT
 - ▶ Use of Charts
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Equipment in the Department :

Sr. No.	Equipments	Quantity
1	Students Microscope	20
2	Dissecting Micro Scope	10
3	Laminar Air Flow	01
4	Autoclave (Portable) & Vertical	01+01
5	Hot Air Oven	01
6	Slide Projector	01
7	Inoculating Chamber	01
8	Erma Scope	01
9	Microtome (Rolling)	01
10	Spectrophotometer	01
11	Colorimeter	01
12	Centrifuge Machine	01
13	Computer & Projector	01
14	Research Microscope (Trinocular)	01
15	Refrigerator	01
16	Digital Balance	01
17	Arc Auxanometer	01
18	Ph Meter	01
19	Soxlet extractor	01
20	Clinostat	01
21	Hair Drier	03

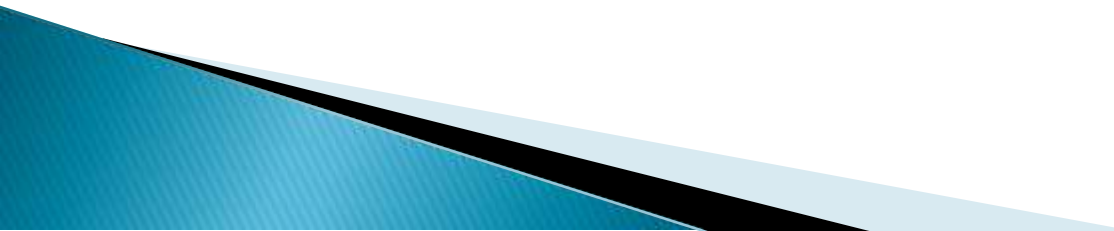
Study Material in The Department

- **Charts : 137**
 - **Museum Specimens : 22**
 - **Permanent Slides : 125**
 - **Class work Materials**
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Prominent Alumni and Position:

- ▶ Smt. Anuradha Dhalkari- Dy. Collector, Parbhani.
- ▶ Mr. Mukesh Rator – E.D.O., Manwath
- ▶ Mr. Kekan M.D. Science Teacher, SSKV High School, Manwath.
- ▶ Dr.Kadam Vilash, NET passed, Ph. D. at IICT, Hyderabad
- ▶ Mr. Arjun Nakhate – Assit. Prof. Deogiry Engineering college, Sambhajinagar.
- ▶ Mr. Virkar Arun , Asst. Prof. Nitin College, Pathri
- ▶ Mr. Mokare Mahesh, Teacher, Devnandra High School, Pathri
- ▶ Shri. Hoge B. N., Jr. Lect. KKM College ,Manwath
- ▶ Mr. Pawar Balasaheb, Teacher, S.S.K.V, ,Manwath
- ▶ Dr. Udavant Rohini, SET Qualified
- ▶ Dr. Kale Amol – M. Sc. Ph. D. Company Job(USA)
- ▶ Miss Shivkanya Gonge – M. Sc.(Botany) B. ed.
- ▶ Miss Shital Awachr – M. Sc. (Botany)
- ▶ Miss Jyoti Kute – M. Sc.(Botany)
- ▶ Miss Rutuja Kokkar - M. Sc.(Botany)
- ▶ Miss Mayuri Done - M. Sc.(Botany)
- ▶ Miss Swati Pawar - M. Sc.(Botany)
- ▶ Miss Smita Lipane– M. Sc. (Botany)

Future Plans :

- 1) To organize conferences or Seminars and Workshops.
 - 2) To arrange the Guest lecturers of Eminent botanists
 - 3) To get recognition Research laboratory .
 - 4) To develop Herbal Garden and nursery in polyhouse.
 - 5) To start the Career Oriented Skill courses in Botany.
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Thank you

