

# DEPARTMENT OF BOTANY

## 1. About the department:

- ❖ Department of Botany is active since 1962.
- ❖ Department of Botany is having very good spacious laboratory, Departmental library, botanical garden, skilled teaching and non – teaching staff.
- ❖ Laboratory is having all necessary instruments, computer with scanner and printer, LCD projector, etc.
- ❖ Departmental library is having about 200 Indian and foreign author's books.
- ❖ Botanical garden is spread throughout the campus. Around 800 Trees are in various stages of growth. Some of these are medicinal plants. Other plants are of ornamental value. Plants specimens needed for practical purposes are well maintained in the botanical garden as well as in the campus. Herbal garden is also developed with 50 species of medicinal plants.
- ❖ Prof. R. L. Deshmukh and Dr. K. M. Salve are among teaching staff having 20 years of teaching experience. Other staff is also hard working and sincere.
- ❖ Support staff includes Laboratory Assistant Mr. B. S. Bankar is hard working and sincere.
- ❖ Student centric department.
- ❖ Teachers believe in lifelong learning.
- ❖ Students have an opportunity to get excellent quality education.
- ❖ Students can improve as department believes in adopting student centric method for teaching.
- ❖ Students of T.Y.B.Sc. Botany will have an opportunity in BSI and forensic department both at central and state level.
- ❖ To teach in schools and colleges after applying for B.Ed.
- ❖ Opt for M.Sc. Botany for higher education.
- ❖ Can enroll for an integrated M.Sc. + Ph.D.
- ❖ After T.Y.B.Sc. Botany students have some jobs available like ecologists, paleobotanists, geneticists, botanists etc.
- ❖ After T.Y.B.Sc., students can appear for civil – service exam and state wise civil – service exam like Indian Forest Service (IFS) also Railway exam etc.
- ❖ Motivate students to learn Plant Sciences and apply their knowledge in corporate sectors like green audit, carbon credits, carbon sequestration, use of plants for mitigating climate change, zero budget natural farming, organic farming etc.

## 2. Objectives of the Department:

- ❖ To provide knowledge and training to students to undergraduate class with a view to enable them to obtain good jobs in the future.
- ❖ To orient students to botany to become entrepreneur in horticulture from organic manure and food processing.
- ❖ To create awareness among students regarding burning problems of world like water shortage, loss of biodiversity, pollution, shortage of food etc.
- ❖ To develop officer like qualities in them which will be helpful for them to obtain good rank in competitive examinations.

## 3. Staff details:

<b>A.</b> Name	:	<b>Prof. Rajendra L. Deshmukh</b>
Designation	:	Associate Professor and Head of Department
Qualification	:	M.Sc. S.E.T.
Email Id	:	<a href="mailto:rajendradeshmukhwai@gmail.com">rajendradeshmukhwai@gmail.com</a>
Contact number	:	9763444808
Teaching Experience:	:	1999 to till date - 24 years
Expert Area	:	Angiosperms
Photo	:	



**B. Name** : **Dr. Kirankumar M. Salve**  
**Designation** : Assistant Professor  
**Qualification** : M.Sc. Ph.D.  
**Email Id** : [skbotany@gmail.com](mailto:skbotany@gmail.com)  
**Contact number** : 9422221013  
**Teaching Experience:** 2003 to till date - 20 years  
**Expert Area** : Pharmacognosy, Physiology, Biotechnology, Cryptogams  
**Photo** :



**C. Name** : **Prof. Afreen A. Shaikh**  
**Designation** : Assistant Professor  
**Qualification** : M.Sc. B.Ed.  
**Email Id** : [afreenshaikh9306@gmail.com](mailto:afreenshaikh9306@gmail.com)  
**Contact number** : 9588492504  
**Teaching Experience:** 2021 to till date - 1 year  
**Expert Area** : Cell and Molecular Biology, Ecology  
Medicinal Plants  
**Photo** :



**D. Name** : **Prof. Payal R. Jadhav**  
**Designation** : Assistant Professor  
**Qualification** : M.Sc.  
**Email Id** : [payaljadhav0522@gmail.com](mailto:payaljadhav0522@gmail.com)  
**Contact number** : 7499102324  
**Teaching Experience:** July 2023 to till date  
**Expert Area** : Medicinal Plants, Cryptogams, Pomology  
**Photo** :



**4. Departmental initiatives for quality sustenance:**

- ❖ Regular teaching, practicals, field visits are carried out by the department.
- ❖ Well developed departmental library with about 150 books includes textbooks and references.
- ❖ Well developed botanical garden with about 250 species of plants.
- ❖ Well educated experienced and devoted staff.

**5. Course details:**

Sr. No.	Name of the program	Program details	Duration
01	F.Y.B.Sc. Botany	Sem – I BO-111: Plant Life and Utilization – I Sem – I BO-112: Plant Morphology and Anatomy Sem II - BO-121: Plant Life And Utilization-II Sem – II BO-122: Principles Of Plant Science	01 year

02	S.Y.B.Sc. Botany	<p>Sem – III BO- 231 Taxonomy of Angiosperms and Plant Ecology</p> <p>Sem – III BO:232 Plant Physiology</p> <p>Sem – IV BO: 241 Plant Anatomy and Embryology</p> <p>Sem – IV BO: 242 Plant Biotechnology</p>	01 year
03	T.Y.B.Sc. Botany	<p>Sem – V BO: 351 Algae and Fungi</p> <p>Sem - V BO: 352 Archegoniate</p> <p>Sem – V BO: 353 Spermatophyta and Paleobotany</p> <p>Sem – V BO: 354 Plant Ecology</p> <p>Sem – V BO: 355 Cell and Molecular Biology</p> <p>Sem – V BO: 356 Genetics</p> <p>Sem – V BO: 3510 Medicinal Botany</p> <p>Sem – V BO 3511 Plant Diversity and Human Health</p> <p>Sem – VI BO: 361 Plant Physiology</p> <p>Sem – VI BO: 362 Biochemistry</p> <p>Sem – VI BO: 363 Plant Pathology</p> <p>Sem – VI BO: 364 Evolution and Population genetics</p> <p>Sem – VI BO: 365 Advanced Plant Biotechnology</p> <p>Sem – VI BO: 366 Plant Breeding and Seed Technology</p> <p>Sem – VI BO 3610 Nursery and Gardening Management</p> <p>Sem – VI BO 3611 Biofertilizers</p>	01 year

## 6. SWOC analysis of the Department:

### ➤ Strength

- ❖ Department of Botany is having very good spacious laboratory, Departmental library, botanical garden, skilled teaching and non – teaching staff.
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- ❖ Student centric department.
- ❖ Teachers believe in lifelong learning.

### ➤ Weakness

- ❖ College administration should provide additional support staff for the department to have excellence.
- ❖ In Ahmednagar city about 6 colleges are with Botany at final year level. So student's admission in the T.Y.B.Sc. Botany is limited.

### ➤ Opportunities

- ❖ Students have an opportunity to get excellent quality education.
- ❖ Students can improve as department believes in adopting student centric method for teaching.
- ❖ Students of T.Y.B.Sc. Botany will have an opportunity in BSI and forensic department both at central and state level.
- ❖ To teach in schools and colleges after applying for B.Ed.
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➤ **Challenges**

- ❖ Publicity
- ❖ To involve staff and students in research work overcoming the limiting factors of time and space.

**7. Future Plans:**

- ❖ To Start a M.Sc. Botany and Research Institute.
- ❖ To take major and minor research project on medicinal plants.
- ❖ Overall improvement of the academic atmosphere and results of the department.
- ❖ To develop e-herbarium.
- ❖ To start a consultancy regarding horticulture and nursery management, soil analysis, zero budget farming, biopesticides and biofertilizer development.
- ❖ To develop Nakshatra garden.