



Shri Mohatadevi Shikshan Sanstha, Aurangabad.

PRAGATI MAHAVIDYALAYA

Sawkheda, Tq. Sillod, Dist. Aurangabad.

affiliated to: S.N.D.T. Women's University, Mumbai

College Code: 442 Exam. Center Code: 291

Website: www.pragatisawkheda.co.in

Email: pragatiiqac2016@gmail.com, pragatimahavidyalaya442@gmail.com

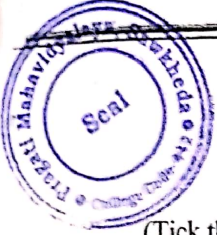
Contact: 9822021784, 8888611717

Mrs. Kaveri Palkar
President

Mrs. Archana Mukhekar
Secretary

Dr. Varsha Phalke
Principal

Date-21/03/2022



Teacher Performance Appraisal Form:

(Tick the Grading level where numbers are given- 1 is the lowest and 5 is the highest)

Personal Details:

Name: Dr. Bharatbhushan Digambar Pandit

Designation: Asst - Professor

Department: Botany

Academic Qualifications: M.Sc. Botany

Years of Experience: 2

Evaluation Period: 2021-22

1. Teaching Effectiveness:

Ability to communicate subject matter clearly and effectively:

1 2 3 4 5 ✓

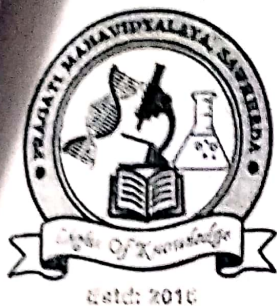
Engagement with students in the learning process:

1 2 3 4 5 ✓

Use of innovative teaching methodologies and resources:

1 2 3 4 5 ✓





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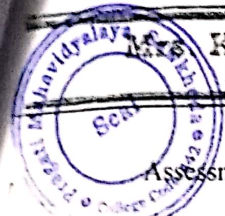
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Assessment and feedback practices

1 2 3 4 5

Integration of technology in teaching and learning:

1 2 3 4 5

2. Research and Scholarly Activities:

Publications in UGC journals:

NEW MAN PUBLICATIONS

Publications in Chapter in book journals:

Indian women and plant sciences

3. Professional Development:

Participation in workshops, seminars, and training programs:

I Attend various types of conferences, seminars and workshops for professional development.

Attainment of additional qualifications or certifications.

Striving for higher education

4. Institutional Engagement:

Participation in departmental meetings and committees:

Write details and attaché Annexure of it to API form

I taken Active participation in Botany Departmental Meeting.





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Contribution to academic planning and policy development:

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I have Research, innovation and collaboration in the field of Botany

Service on institutional boards or councils:

5. Student Engagement and Support:

Availability and accessibility to students outside of class hours:

1 2 3 4 5

Support for student academic and personal development:

1 2 3 4 5

Guidance and counseling for student career goals:

1 2 3 4 5

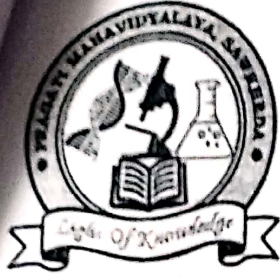
Response to student feedback and concerns:

1 2 3 4 5

Promotion of a positive learning environment:

1 2 3 4 5





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6. Contribution to Community and Society:

Engagement in outreach activities and community service:

Write details and attaché Annexure of it to API form

Yes, I involve various activities in Botany, that extend knowledge & promote sustainability.

C

Collaboration with local schools, NGOs, or government agencies:

Write details and attaché Annexure of it to API form

Yes, I organize interactive workshops on plant biology, environmental conservation,

Initiatives to address social issues or promote education equity:

Write details and attaché Annexure of it to API form

I arrange outreach programs to underserved communities also I bridge the digital divide to ensure equitable access to on line learning in Botany.

Advocacy for the profession and educational reforms:

Write details and attaché Annexure of it to API form

I organize public awareness campaigns that highlight the role of plants in ecosystems, agriculture, and medicine.

Representation of the institution in external forums:

Write details and attaché Annexure of it to API form

I participate in conferences and symposia. Hosting Public lectures and outreach Events -



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7. Overall Performance Assessment:

Rating Scale: 1

2

3

4 ✓

5

Comments:

Overall performance is satisfactory

Reviewer's Comments:

Write details and attaché Annexure of it to API form

Very well done.

Teacher's Comments and Self-Assessment:

Write details and attaché Annexure of it to API form

Try there level best performance.

Development Plan:

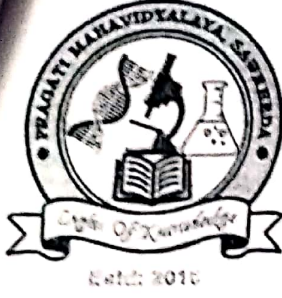
Write details and attaché Annexure of it to API form

To foster a deep understanding of Plant Sciences and their critical role in environmental sustainability.

Areas of strength to maintain.

Write details and attaché Annexure of it to API form

Here are several potential strengths - Technical Expertise Research and Analytical skills.



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Areas for improvement and corresponding actions.

Write details and attaché Annexure of it to API form

Research Skills - enroll in workshops or online courses on research methods and statistics.

Professional development goals for the next evaluation period.

Write details and attaché Annexure of it to API form

Enhance Research skills

Signatures:

Teacher: _____

B. Pandit

Date: 21/03/2022

Reviewer: _____

Varsha

Date: 21/03/2022



"Indian Women and Plant Sciences"



Dr. Bharatbhushan Digambar Pandit

Botany Department

Pragati Mahavidyalaya, Sawkheda.

Introduction:

The field of plant sciences encompasses a wide range of disciplines, including botany, horticulture, agriculture, and environmental science, and plays a pivotal role in addressing global challenges such as food security, climate change, and biodiversity conservation. In India, women have played a crucial role in advancing research, education, and practices related to plant sciences, contributing significantly to the sustainable management of natural resources and agricultural innovation. Despite historical barriers, including limited access to education and research opportunities, Indian women in plant sciences have made remarkable strides. Pioneering figures like Dr. M. S. Swaminathan, often referred to as the "Father of the Green Revolution in India," have been supported by women scientists who have significantly contributed to agricultural research and development. For instance, women researchers have focused on developing high-yielding and drought-resistant crop varieties, which are essential for enhancing food production in the face of climate variability. Women educators and researchers have also been instrumental in promoting sustainable agricultural practices and organic farming. Their efforts in creating awareness about agroecology and biodiversity have been critical in empowering local farmers, particularly women, to adopt sustainable methods that enhance productivity while preserving the environment. Women in plant sciences actively participate in community-based initiatives, conservation projects, and environmental advocacy, addressing issues such as deforestation, habitat loss, and the impacts of climate change. By integrating traditional knowledge with scientific research, they contribute to holistic approaches that foster environmental sustainability. In academia, women have emerged as influential educators and mentors, inspiring future generations of plant scientists. Through their dedication

V. V. V.

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and leadership, they are breaking stereotypes and reshaping the narrative around women in science. The contributions of women in plant sciences in India are invaluable. Their research, advocacy, and educational efforts not only advance the field but also play a crucial role in fostering sustainable practices and enhancing the resilience of agricultural systems, ultimately benefiting society at large.

The Significance of Plant Sciences in India:

1. Agricultural Importance

India is primarily an agrarian economy, with agriculture contributing significantly to its GDP and employing a substantial portion of the population. Understanding plant biology, genetics, and ecology is essential for improving crop yield, enhancing food security, and promoting sustainable agricultural practices.

2. Biodiversity Conservation

India is home to a rich diversity of plant species, many of which are endemic. Women in plant sciences are pivotal in researching and conserving this biodiversity, contributing to the understanding of ecological balance and the preservation of indigenous species.

3. Environmental Sustainability

The sustainable management of natural resources is critical in addressing challenges such as climate change, soil degradation, and habitat loss. Women scientists in plant sciences work towards developing sustainable practices that promote ecological balance and environmental health.

Pioneering Women in Plant Sciences:

1. Dr. Kamaljit Bawa

Dr. Kamaljit Bawa is a prominent ecologist and biologist known for her research on biodiversity and conservation. Her work emphasizes the importance of conserving tropical forests and the role of plant diversity in ecosystem functioning. She has been instrumental in promoting sustainable practices in agriculture and forestry.

2. Dr. Suman Ghosh

Dr. Suman Ghosh is a renowned plant scientist who specializes in plant physiology and biochemistry. Her research focuses on understanding plant responses to

environmental stresses, such as drought and salinity. She has contributed significantly to the development of stress-resistant crop varieties.

3. **Dr. Anita Singh**

Dr. Anita Singh is recognized for her work in the field of horticulture, particularly in fruit and vegetable breeding. Her contributions have led to the development of high-yielding, disease-resistant varieties of fruits and vegetables, improving food security and nutritional value.

4. **Dr. Madhuri Joshi**

Dr. Madhuri Joshi has made significant contributions to ethnobotany and the study of medicinal plants. Her research focuses on the traditional uses of plants in Indian medicine, highlighting the importance of preserving indigenous knowledge and promoting sustainable harvesting practices.

Innovations and Contributions in Plant Sciences:

1. **Crop Improvement and Biotechnology**

Indian women in plant sciences are at the forefront of research in crop improvement through biotechnology. Their work involves genetic modification, molecular breeding, and tissue culture techniques that enhance crop yield, nutritional value, and resistance to pests and diseases.

2. **Sustainable Agricultural Practices**

Women scientists have been pioneers in developing sustainable agricultural practices that reduce reliance on chemical fertilizers and pesticides. Their research on organic farming, agroecology, and permaculture promotes environmentally friendly farming methods that improve soil health and biodiversity.

3. **Conservation of Indigenous Plants**

The conservation of indigenous plant species is critical for maintaining biodiversity and supporting local ecosystems. Women in plant sciences are actively engaged in documenting traditional plant uses, advocating for the conservation of native species, and promoting sustainable harvesting practices.

4. **Climate Change Research**

As climate change poses significant challenges to agriculture and ecosystems, women researchers are investigating the

impact of changing environmental conditions on plant growth and productivity. Their work focuses on developing strategies to enhance resilience and adaptability in crops.

Educational Initiatives and Advocacy:

1. Promoting Education in Plant Sciences

Women in plant sciences are dedicated to promoting education and awareness about the importance of plant biology and conservation. They engage in outreach programs, workshops, and seminars to inspire young girls and women to pursue careers in science.

2. Mentorship and Leadership

Mentorship plays a vital role in empowering the next generation of women in plant sciences. Established women scientists are actively mentoring students and early-career researchers, providing guidance and support for their professional development.

3. Advocacy for Gender Equity

Women in plant sciences advocate for gender equity in scientific research and education. They work towards creating an inclusive environment that encourages the participation of women in leadership roles and decision-making processes within the scientific community.

Challenges Faced by Women in Plant Sciences:

1. Gender Bias and Stereotypes

Despite significant contributions, women in plant sciences often encounter gender bias and stereotypes that hinder their professional advancement. Addressing these biases is essential for fostering an equitable environment for women in scientific research.

2. Work-Life Balance

Balancing research, teaching, and personal responsibilities poses challenges for many women in academia and industry. Supportive institutional policies, such as flexible work arrangements, help women manage their professional and personal commitments more effectively.

3. Limited Representation in Leadership Roles

Women are often underrepresented in leadership positions within research institutions and organizations. Increasing women's representation in decision-making roles is crucial



for promoting gender equity and ensuring diverse perspectives in plant sciences.

Future Directions in Plant Sciences:

1. Strengthening Collaborations

Collaborative efforts among women scientists, industry partners, and policymakers drive innovation in plant sciences. Interdisciplinary collaborations foster the development of holistic solutions that address complex challenges in agriculture and conservation.

2. Integrating Traditional Knowledge

Future research in plant sciences should prioritize the integration of traditional knowledge with modern scientific practices. Women scientists lead initiatives that bridge the gap between indigenous practices and contemporary research.

3. Expanding Access to Resources

Ensuring that women have access to resources, funding, and training opportunities is essential for promoting their contributions to plant sciences. Institutions should actively support initiatives that empower women in scientific research and education.

4. Fostering Global Partnerships

Global partnerships facilitate the sharing of knowledge, resources, and best practices in plant sciences. Women scientists play a pivotal role in establishing international collaborations that promote sustainable agricultural practices and conservation efforts.

Conclusion:

Indian women have made remarkable contributions to the field of plant sciences, driving research and innovation that address pressing environmental and agricultural challenges. Their work in crop improvement, conservation, and sustainable practices has not only advanced the field but also enhanced food security and biodiversity in India.

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