



Dr. Aasawari M. Shenwai
Asst. Professor, Department of Botany

**SATISH PRADHAN DNYANASADHANA COLLEGE,
THANE Off Eastern Express Highway, Dnyanasadhana
Marg, Thane**

Vidwan ID: 557805

Department	: Botany
Name of the Faculty	: Dr. Aasawari M. Shenwai
Designation	: Assistant Professor
Qualification/s	: M.Sc; M.Phil; Ph.D.
Email ID	: Aasawari2shenwai@gmail.com
Years of Experience	: UG: 5 yrs PG: 8 yrs Research: 4 yrs
Thrust Area (Subject Interest)	: Plant Breeding, Environmental Sciences, Molecular Biology, Cytogenetics, Plant -Biotechnology
Details of Paper Presented	: State Level: Zero National Level: 6 International Level: 34 List : 1. Tak A. A, Kakde U. B, (2016). Quantitative analysis of carbon sequestration by trees held at 9 th NABS, National conference on New biological researches: Opportunities and challenges for sustainable development, August 11-12 2016, by School of Energy Environment and Natural resources, Madurai Kamaraj University, Madurai, India. 2. Tak A. A, Kakde U. B, (2016). Trees as a biomarker of vehicular air pollution in Thane City, published in conference proceedings, of International conference on " modern trends in plant sciences with special reference to the role of Biodiversity in

conversation." Amaravati University, Maharashtra presented Oral paper presentation, 2016. Silver Jubilee National conference on Plant Diversity: past and Present. 30-31 Dec. 2016. Tak A. A, Kakde U. B, (2017). Air pollution tolerance index of plants growing at polluted industrial areas at Thane, published in conference proceedings International conference on contemporary issues in integrating climate- The Emerging areas of agriculture, horticulture, biodiversity, forestry, engineering technology, fundamental/ applied sciences and Business Management for sustainable development, 11 -12 May 2017. Kalimpong, Sikkim, India. (AGROTECH- 2017).

3. Tak A. A, Kakde U. B, (2017). Comparative study of Air pollution tolerance and performance index of some of the plants growing in an industrial area. Published in conference proceeding of Global Science Congress on Emerging trends in basic and applied Sciences (ETBAS- 2017), Kathmandu, Nepal, May 17-2017.
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21. Tak A. A, (2023). Eco Physiological Evaluation of Tree Foliage for Biomonitoring of Air Pollution tolerant Species, Exposed to Vehicular-Pollution. Published in conference proceeding at One day International Conference-Breakthrough Innovations-Quest, Challenges, Journey on 28 th Feb. 2023
22. Tak A. A, 2024. Beyond the Shadows: A Comparative Study of Homeless Population in Thane, Maharashtra, India. Published in conference proceeding at one day National
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31. Tak A.A., Kakde U.B., (2017). Assessment of air

pollution tolerance index of plants: a comparative study. International Journal of Pharmacy and Pharmaceutical Sciences Vol 9, Issue 7.83-89.

32. Tak A.A., Kakde U.B., (2017). Comparative Study of Air Pollution Tolerance & Performance Index of Some Plants Growing in an Industrial Area. Online International Interdisciplinary Research Journal, {Bi-Monthly}, Volume-07, Special Issue (01) (GlobalScience Congress on Emerging Trends in Basic and Applied Sciences, May 17 to 20, 2017
33. Tak A. A., Kakde U.B., (2019).: Evaluation of trace elements and particulate matter deposition on plant foliage exposed to vehicular pollution. Acta Bot Croat, DOI: 10.2478/botcro-2019-0014.
34. Tak A.A., Kakde U.B.,(2020a). Analysis of carbon sequestration by dominant trees in urban areas of Thane city. International Journal of Global Warming. Vol. 20(1): 1-11.
35. Tak A.A., Kakde U.B.,(2020b). Evaluation of Air Pollution Tolerance and Performance Index of Plants Growing In Industrial Areas. International Journal of Ecology and Environmental Science. Vol.2 (1): 1-5.
36. Tak A.A., Kakde U.B.,(2020). Biochemical, Morphological and Anatomical Changes in Tree Foliage Exposed to Vehicular-Pollution. International Journal of Environment, Agriculture and Biotechnology. Vol. 5 (2).
37. Tak A.A., Kakde U.B.,(2020). Greenbelt Development In Urban Area By Evaluation Of Biochemical Parameters Of Plants. Journal of Critical Reviews. Vol. 7(19): 3332-3339.
38. Tak A. A. Benita Rodrigues, U.B. Kakde,(2021). Study of fungi responsible for the post harvest deterioration of onion (*Allium sepa* L.). International Journal of Botany studies. Vol. 6(Issue 3):200-204.
39. Dr. Aasawari Tak, Dr. Bhushan Langi. Evaluation of Aeromycoflora of Satish Pradhan Dnyanasadhana College Library, Thane, Maharashtra, India. The Journal of Plant Sciences Research. Volume (32) issue 2, 2023. ISSN: 0970-3880.
40. Aasawari Shenwai, Umesh B. Kakde, Harshal V.

		<p>Poojari, Benita B. Rodrigues, Adepu Sreenivas, Viraj D. Chabake, Jaya Pawar, Ruchita Shrivastava. The Therapeutic Medicinal plants from Northwestern Himalayas of India, The Journal of Applied Bioanalysis, Vol 10No.2, 192-196.</p>
<p>Details of Publication</p>	<p>:</p>	<p>State Level: Zero</p> <p>National Level:Zero</p> <p>International Level: 11</p> <p>Provide list</p> <ol style="list-style-type: none"> 1. Tak A. A, Kakde U. B, (2016). Quantitative analysis of carbon sequestration by trees held at 9 th NABS, National conference on New biological researches: Opportunities and challenges for sustainable development, August 11-12 2016, by School of Energy Environment and Natural resources, Madurai Kamaraj University, Madurai, India. 2. Tak A. A, Kakde U. B, (2016).Trees as a biomarker of vehicular air pollution in Thane City, published in conference proceedings, of International conference on " modern trends in plant sciences with special reference to the role of Biodiversity in conversation." Amaravati University, Maharashtra presented Oral paper presentation, 2016.Silver Jubilee National conference on Plant Diversity: past and Present. 30-31Dec. 2016. Tak A. A, Kakde U. B, (2017). Air pollution tolerance index of plants growing at polluted industrial areas at Thane, published in conference proceedings International conference on contemporary issues in integrating climate- The Emerging areas of agriculture, horticulture, biodiversity, forestry, engineering technology, fundamental/ applied sciences and Business Management for sustainable development, 11 -12May 2017. Kalimpong, Sikkim, India. (AGROTECH-2017). 3. Tak A. A, Kakde U. B, (2017). Comparative study of Air pollution tolerance and performance index of some of the plants growing in an industrial area. Published in

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		<p>Biochemical Parameters Of Plants. Journal of Critical Reviews. Vol. 7(19): 3332-3339.</p> <p>38. Tak A. A. Benita Rodrigues, U.B. Kakde,(2021). Study of fungi responsible for the post harvest deterioration of onion (<i>Allium sepa</i> L.). International Journal of Botany studies.Vol. 6(Issue 3):200-204.</p> <p>39. Dr. Aasawari Tak, Dr. Bhushan Langi. Evaluation of Aeromycoflora of Satish Pradhan Dnyanasadhana College Library, Thane, Maharashtra, India. The Journal of Plant Sciences Research.Volume (32) issue 2, 2023.ISSN: 0970-3880.</p> <p>40. Aasawari Shenwai, Umesh B. Kakde, Harshal V. Poojari, Benita B. Rodrigues, Adepu Sreenivas, Viraj D. Chabake, Jaya Pawar, Ruchita Shrivastava. The Therapeutic Medicinal plants from Northwestern Himalayas of India, The Journal of Applied Bioanalysis, Vol 10No.2, 192-196.</p>
Details of Patent	:	<p>Details :</p> <ul style="list-style-type: none"> • Patent Design No. 395662-001 (2024): Portable Nanoparticle Cytotoxicity Tester (Awarded)
Details of Seminar/Workshop/Conferences/Symposia attained	:	<p>State Level: 4 National Level: 20 International Level: 20</p> <p>Provide list</p> <ol style="list-style-type: none"> 1. Successfully completed the Bioinformatics Training Program at Grow linkBioinformatics Center Nagpur In 2004. 2. Participation SET – Workshop in 2004 in Life-sciences organized by SET center, University of Pune, 14-16th Feb. 2004, in the post graduate department of Botany, Amravati University, Amravati. 3. Successfully completed the comprehensive workshop on Analytical instruments (with practical utility) which included chromatography, spectroscopy and material characterization, held on 2 to 9 th Dec 2019 at The Intitute of Science, Dr. Homi Bhabha state

University, Mumbai, India.

4. Successfully completed Green Skill Development Program by Ministry of Environment and Forestry at ENVIS Department Mantralaya, Mumbai, March 2020.
5. Certificate course in Aesthetic Horticulture and Entrepreneurship Development held between 15th Feb. to 25th Feb. 2022.
6. Successfully organized event on “Being Me” 26th of Feb.2022 a Lecture series on theme Divyangjan at Satish Pradhan Dnyanasadhna college, Thane
7. Successfully organized event on “E-Poster Competition event” 28th of Feb.2022 an intercollegiate quiz completion at Satish Pradhan Dnyanasadhna college, Thane
8. Workshop on “Sensitizing students and faculty for Avishkar-Research Convention and Research Meet” held on 25th May 2023, by B.K. Birla College, (Autonomous), Kalyan jointly with Society for Applied Biology and Biotechnology.
9. Participated in Faculty Knowledge Sharing Program on “Case study development under Research Methodology” at Satish Pradhan Dnyanasadhana College, Thane, on 30th July 2022.
10. Successfully completed online Two – Week Refresher Course in “BOTANY”, from 29 July - 13 August, 2023 and obtained Grade A+ organized by Ramanujan College, University of Delhi, under the aegis of MINISTRY OF EDUCATION PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING.
11. 21 Days International Training Cum Certificate Course on "Technology Innovation in Agriculture, Horticulture, Animal Husbandry, Fisheries, Sericulture and Allied Sectors for Sustainable Entrepreneurship" organized by College of Horticulture and Forestry, Central Agricultural University Pasighat-Arunachal Pradesh, India, Agro Environmental Development Society, Rampur, Uttar Pradesh, India, Tribhuvan University Research Centre for Applied Science and Technology (RECAST), Kathmandu, Nepal and University of Debrecen,

	<p>Faculty of Agricultural and Food Sciences and Environment Management, Institute of Plant Protection, Debrecen, Hungary via virtual mode during June 16 to July 06, 2023.</p> <p>12. Workshop on Artificial Intelligence and magical tools for teachers and researchers: challenges and Opportunities, on 8th August 2023, organized by IQAC, Sacred Heart College, (Autonomous) Thevara, Kochi-13.</p> <p>13. Workshop on Thane zone IV and V 18th Intercollegiate/Institute/Department Aavishkar Research Convention 2023-2024, organized by Department of Students' development, University of Mumbai at SIES (NERUL) College of Arts, Science and Commerce (Autonomous) for Thane District Zone IV and V on Tuesday, August 1, 2023.</p> <p>14. Workshop on "Sensitizing students and faculty for Avishkar-Research Convention and Research Meet" held on 25th May 2023, by B.K. Birla College,(Autonomous), Kalyan jointly with Society for Applied Biology and Biotechnology.</p>
<p>Details of Book Authored</p>	<p>: Provide list with ISBN No.</p> <ul style="list-style-type: none"> • Editor of the book "Futuristic Trends in Chemical Material Sciences & Nano Technology" publication by Iterative International Publishers, Novi, Michigan, USA & Chikamagaluru, Karnataka, India. Print ISBN: 978-93-6252-257-3 • Author of "A Text Book of Essential of Ecology and Environmental Science", R.K. Publications, India/Brazil/Kenya, 1st Edition, ISBN: 978-81-974697-3-2
<p>Details of Projects</p>	<p>: Minor Research Project: Zero Major Research Project: 06</p> <ol style="list-style-type: none"> 1. Air pollution tolerance index of some of plants near Madam Cama road, Fort, Mumbai. 2. Assessment of biochemical analysis of some stress tolerant plants growing near The Institute of Science, Mumbai 3. Evaluation of aeromycoflora of Satish

		<p>Pradhan Dnyanasadhana College library, Thane</p> <ol style="list-style-type: none"> 4. Carbon sequestration monitoring for mitigation of climate change at Thane region, Mumbai 5. Air pollution and its impacts on plants 6. Biochemical and cytological studies in Wheat and Soybean.
Experience on the various Committees at the University of Mumbai	:	<ul style="list-style-type: none"> • Aavishkar Research Convention-Teacher Co-ordinator of Satish Pradhan Dnyannasadhana College, Thane, Maharashtra, India
Experience on the various Committees at College	:	<ul style="list-style-type: none"> • IQAC member for criteria 1, Satish Pradhan Dnyanasadhana College, Thane • ISO audit member done academic audit for year 2022-23 and 2023-24, Satish Pradhan Dnyanasadhana College, Thane • Aavishkar Research Convention-Teacher Co-ordinator of Satish Pradhan Dnyannasadhana College, Thane, Maharashtra, India • Member of Science- Association committee of Satish Pradhan Dnyannasadhana College, Thane, Maharashtra, India • Member of Green Audit committee of Satish Pradhan Dnyannasadhana College, Thane, Maharashtra, India
Experience on the various Committees at Other University / Institute	:	<ul style="list-style-type: none"> • Member of Global Science Submit on Emerging trends in basic and applied Sciences, Dubai, UAE • Member of International Scientist Awards on Engineering, Science, and Medicine, Goa • Member of ball Badminton Team • Member of Botanical Society, Amravati • Recognized reviewer for the Journal of Institute of Scholars (InSc), -International Journal of Basic and applied Sciences. • Life member of Agro Environmental Development Society (AEDS), 2022 • Life Membership of Academic and Research Conclave

		<p>from 2022-23.</p> <ul style="list-style-type: none"> • Member of Mangrove Society of India.2024-25.
Membership	:	<ul style="list-style-type: none"> • Member of Global Science Submit on Emerging trends in basic and applied Sciences, Dubai, UAE • Member of International Scientist Awards on Engineering, Science, and Medicine, Goa • Member of ball Badminton Team • Member of Botanical Society, Amravati • Recognized reviewer for the Journal of Institute of Scholars (InSc), -International Journal of Basic and applied Sciences. • Life member of Agro Environmental Development Society (AEDS), 2022 • Life Membership of Academic and Research Conclave from 2022-23. • Member of Mangrove Society of India.2024-25.
Awards and Recognitions	:	<ol style="list-style-type: none"> 1. 4th International Conference on Science and technology for Society received Best paper award at 4th International Conference on Science and technology for Society, 13 to 15 May 2019. ICSTS- Bengaluru. 2. Global Science Submit on Emerging trends in basic and applied Sciences, Dubai, UAE, Nov 4-7, 2019 received Best paper award at Global Science Submit on Emerging trends in basic and applied Sciences, Dubai, UAE, Nov 4-7, 2019. 3. Global Science Submit on Emerging trends in basic and applied Sciences, Dubai, UAE, received Best paper presentation award at Global Science Submit on emerging trends in basic and applied Sciences, Dubai, UAE, Nov 4-7, 2019 4. “Woman Researcher Award” 2021, at International Scientist Awards on Engineering, Science, and Medicine, Goa, 6-7thMarch 2021, for excellent PhD. research work and publications in high impact factor journals. 5. “Research excellence award” 2021 for the work,

	<p>“Analysis of Carbon sequestration by dominant trees in urban areas of Thane city”. International Journal of Global Warming. (Scopus indexed) Vol. 20(1): 1-11.</p> <p>6. Young Environmental Scientist Award 2022 by Argo Environmental Development Society, U.P. India held on 29-31 October 2022 at 7th International Conference on "Opportunity and challenges in Agriculture, Environmental and Biosciences for Global Development (OCAEBGS-2022)</p> <p>7. Best Oral paper presentation award 2nd Prize at Agro Environmental Development Society, U.P. India held on 29-31 October 2022 at 7th International Conference on "Opportunity and challenges in Agriculture, Environmental and Biosciences for Global Development (OCAEBGS-2022)</p> <p>8. RSIR Best Researcher Award in the International Conference on "Computational Science and Intelligence 4-5 August 2023". Kaveripattanam, Krishnagiri, Tamil Nadu, India</p> <p>9. Patent on Cytotoxicity Tester device, 2024.</p>
<p>Any Other Information</p>	<p>: WORK EXPERIENCE</p> <ul style="list-style-type: none"> • Currently working at Satish Pradhan Dnyansadhana college, Thane as an Assistant professor from year 2021-2022 for M.Sc and B.Sc. till date 2024 • Lecturer ship in Department of Botany, The Institute of Science, Mumbai as an Assistant professor (CHB) from year 2015-2021 for M.Sc. • Lecturer ship in Department of Botany Amravati University during 2004-05 for M.Sc. With Subject Bioinformatics. • Lecturer ship at B.Sc. during 2005-06 at Vidnyan Mahavidyalaya college Malkapur (Buldhana) for the final year with Subject Biotechnology. <p><u>Research work experience:</u></p>

- **Project work** experience at Agharkar Research Institute Pune, 2006-09. Biochemical and Cytological studies in Durum wheat and soybean
- **M.Phil project:** “BIOCHEMICAL AND CYTOLOGICAL STUDIES IN WHEAT AND SOYABEAN.”
- **Ph. D topic:** “STUDY OF SOME OF THE STRESS TOLERANT PLANT SPECIES WITH REGARD TO ENVIRONMENTAL AIR POLLUTION IN THANE AREA” under the guidance of Dr. Umesh B. Kakde.

RESEARCH GUIDE FOR POST-GRADUATION STUDENTS

1. Research student: Chaitali Patil, M.Sc. part 2, (2022). Evaluation of Aeromycoflora of Satish Pradhan Dnyanasadhana College Library, Thane, Maharashtra, India.
2. Research student: Shivani Gupta, M.Sc. Part 2 (2024). Dumping soil fungi identification and evaluation of some of the parameters.

Research student : Fr. Robinson Verghese, M.Sc. Part 2 (2024). Mangrove soil fungi identification and evaluation of some of the parameters

AAVISHKAR RESEARCH PROJECTS

1. Biomonitoring of Urban Trees as A Key Indicator For Mitigating Environmental Pollution.
Student Name : Rutik Tambe: M.Sc. Part 1, 2022.
Category : 3 Pure Sciences.
2. Biodegradable fungi for sustainable development: Harnessing Nature’s potential for eco-friendly solutions.
Student Name : Ms. Shivani A. Gupta and Ms. Yadav: M.Sc. Part 2, 2023, Category 4 (agriculture)
3. Green Harvesting: The sustainable Promise of Eco-Friendly cultivation discs.
Student Name: Siddhesh Shende and Kartik

Bansode : F.Y. B.Sc. Botany, 2023, Category 4 (Agriculture)

4. Novel bio-enzyme for disease resistant plants: A catalyst for sustainable development. (Winner for next round)

Student Name: Latika Katke F.Y. B.Sc. Botany, 2023, Category : 3 Pure sciences

5. Pocket Friendly Fire Extinguisher : Miniaturized safety for everyday life

Student Name: Aastha Sonawane, Shirke Sonali, Waghare Prachi, S.Y. B.Sc Botany, 2023, Category : 3 Pure sciences.

6. Novel Guardians : Enhancing Crop yield through innovative insecticide solutions Student Name: Teli Sakshi, Shirose Shantanu, Sharma Priya, Kalaskar Siddhi, Pagare Diksha, T.Y. B.Sc. Botany, 2023, Category 4 (Agriculture)

EXTRACURRICULAR ACTIVITIES

- First prize in Departmental Day Celebration in Flower arrangements, Roses, organized by Department of Botany, Amravati University, 4th - 5th Jan 2003.
- Participation in intercollegiate Best Seminar Competition on Biotechnological advances in Health, Wealth and Sustainable Agriculture, organized by “Association of Biotechnologist”, Department of Biotechnology, Amravati University, Amravati, Maharashtra, India, on 18th Feb. 2003.
- Third prize in event Science Quiz competition at the “NSD-2003” organized by Department of Botany, Amravati University, from 24th to 28th Feb. 2003, based on the theme, “50 Years of DNA and 25 Years of IVF- The Blueprint of Life.
- Second prize in competition held on Medicinal plants, under the auspices of Departmental Day Program on 7th-9th Jan. 2004.
- Third Prize in Poster presentation at National Science Day-2005 (NSD-2005) organized by Amravati University from 25th Feb to 1st March 2005.
- Member of Organizing committee in National conference on “Current Trends and Future Prospects in Fungal Biotechnology” organized by Department of Botany, The Institute of Science, Mumbai in association with Mycological society of India

(Mumbai Unit) on 8th - 9th Feb. 2019.

- One week faculty development program on “Modern Teaching, Evaluation and Research Methods” under UGC Scheme, Stride Component-I (Research Capacity Building) organized by Vinayakrao Patil Mahavidhyalaya, Vaijapur, Dist, Aurangabad from June 02 to June 07 2020, with grade A+.
- Event co-ordinator of Certificate course on “A certificate course in Botany” during period 15th of Feb. to 25th 2022 a Lecture series on theme Divyangjan at Satish Pradhan Dnyanasadhna college, Thane.
- Organizer of Poster competition, on National Science Day, celebration on 28th Feb. 2022, at Satish Pradhan Dnyanasadhana College, Thane.
- Chaired the session for track 1" recent trends in Agricultural Sciences at Agro Environmental Development Society, U.P. India held on 29-31 October 2022 at 7th International Conference on "Opportunity and challenges in Agriculture, Environmental and Biosciences for Global Development (OCAEBGS-2022)
- Delivered a talk on air pollution and its impacts on human health at International Day of Clean air with blue skies, Air we Share program held by Thane Municipality Cooperation on 10th Sep. 2022 at Satish Pradhan Dnyanasadhana College, Thane.
- Delivered Oral talk on "Biomonitoring of urban trees as a key indicator for mitigating environmental pollution", in International Conference on Impacts of Environment, Food and Nutrition on Human Health held on Dec. 21-24, 2022 at Jaipur, India
- Successfully guided student for 17TH AVISHKAR INTER COLLEGIATE/Institute/Department of Research Convention (Zonal round) organized by Mumbai University at Karmaveer Bhaurao Patil College, Vashi on 16th Dec. 2022 for Thane zone
- Invited as a "Judge" for 17TH AVISHKAR INTER-COLLEGIATE/Institute/Department of Research Convention (Zonal round) organized by Mumbai University at Sindhudurg for Category 4: Agriculture and Animal Husbandry, category 5 and Category 6 for UG,PG and PPG level from 19th Dec to 21st Dec 2022.
- Invited as a "Judge" for 18TH AVISHKAR INTER-

COLLEGIATE/Institute/Department of Research Convention (Zonal round) organized by Mumbai University at Sindhudurg for Category 3 and 4: Agriculture and Animal Husbandry, for UG, PG and PPG level on 20th Dec 2023

- Successfully organized event on “A certificate course in Botany” during period 16 th of Feb. to 25th 2022 a Lecture series on theme Divyangjan at Satish Pradhan Dnyanasadhna college, Thane
- Teacher coordinator for Aavishkar Research Convention, 2023
- Delivered a lecture on Research Methodology for UG, PG Level students arranged by Research Promotion Cell by Satish Pradhan Dnyanasadhana College, 16/02/2023, and 23/02/2023, Thane.
- Delivered a lecture on Blue Carbon in Mangroves for sustainable development as Resource person for the National Conference on Mangroves for climate change mitigation and sustainable development of coastal populace (NCMCS 2024 on 25th July to 27th July 2024).
- Certified Mazi Vasundhara Mitra organized by Government of Maharashtra, Environment and Climate Change Development Majhi Vasundhara Abhiyan, 23rd Feb. 2024.
- Active committee member of Mukhamantri Jangourav Sohla held at Kashinath Ghanekar Sabhagrugh, 13th August 2022.
- Participation in quiz on the theme of “Constitution Of India” on account of Republic Day (26th January, 2024)
- Worked as volunteer in NSS during 3 years of graduation
- Participation in intercollegiate Best Seminar Competition at Amravati during 2003- 04.
- Participation in National Science Day, 2003-04
- Participation in ASHAWAMEDH A Mega event as an active participant of welcome committee, 2003-04.