



Dr. Homi Bhabha State University

The Institute of Science, Mumbai

Department of Botany

Annual Report 2023-24

Viksit Bharat @ 2047 – Empowering Young Scientists

9th January 2024



The Institute of Science Mumbai Alumni Association (ISMAA) in association with Department of Botany and Bharucha School of Ecology, Mumbai conducted a symposium on Viksit Bharat @ 2047–Empowering Young Scientists on 9th January 24.

Alumnus Prof. Sharad Chaphekar, along with his 9 PhD students, published a booklet "A Botanist for Degraded Environment - ABDEN" consisting of 12 selected research articles highlighting the environmental concerns. The aim of the program was to inspire young environmentalists to adopt scientific approach in dealing with environmental issues. It was attended by 78 students and alumni.

Short Excursion to Jijamata Udyan: 3rd February 2024



Students from Botany Department visited 27th Flower, Fruits and Vegetable Exhibition organised by BMC on 3rd February 2023 at Jijamata Udyan, Byculla, Mumbai. 20 Students accompanied Prof. Aparna Saraf for the same.

“Career Failures (and Successes) in Agricultural Biotechnology”

8th February 2024



The Institute of Science Mumbai Alumni Association (ISMAA) in association with Department of Botany organized a very motivating talk by Anuradha Raman, Bayer Crop Science, St. Louis, Missouri, United States, that had the students captivated. 45 students were present for the talk.

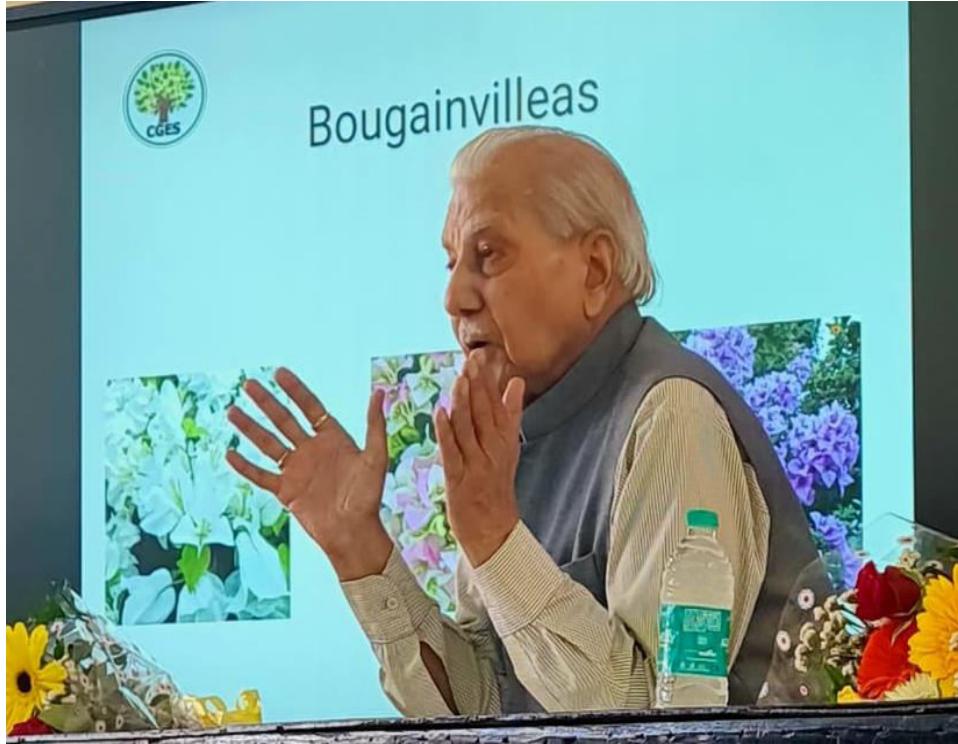
One-Day Industrial Visit to Nishant Aromas Pvt Ltd, Palghar

10th February 2024



**One-Day industrial visit to Nishant Aromas Pvt Ltd, Palghar was organized on 10th February, 2024 .
12 students of M. Sc Part I & II visited the industry with Prof. Umesh Kakde and Dr. Jaya Pawar.**

“Indoor Pollution and Phytoremediation” 21st February 2024



The Institute of Science Mumbai Alumni Association (ISMAA) in association with Department of Botany organized an interactive talk by Dr. S.C. Sharma, Ex- Scientist, CSIR-National Botanical Research Institute, Lucknow, on “Indoor Pollution and Phytoremediation” on 21st February 2024. 32 participants attended the session.

Amidst the greens... with alumnus Dr Lattoo at Mahim Nature Park 24th February 2024



GPS Map Camera

Mumbai, Maharashtra, India

Maharashtra Nature Park, Sion Bandra Link Road, Dharavi,
opp. Bus Depot, Mahim Nature Park, Dharavi, Mumbai,
Maharashtra 400017, India

Lat 19.052111°

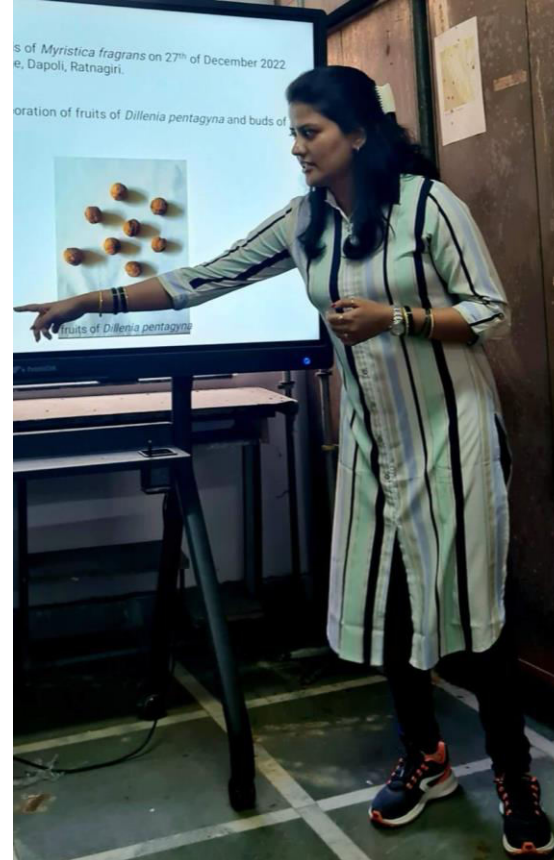
Long 72.86294°

24/02/24 08:59 AM GMT +05:30

Google

Alumnus Dr. C.S. Lattoo conducted a short excursion for 21 Botany students. It was an experience to remember & cherish. The subject expertise awed young minds & his enthusiasm motivated them. Prof. Aparna Saraf accompanied the students.

Annual Work Seminar for PhD Students 7th February & 7th March 2024



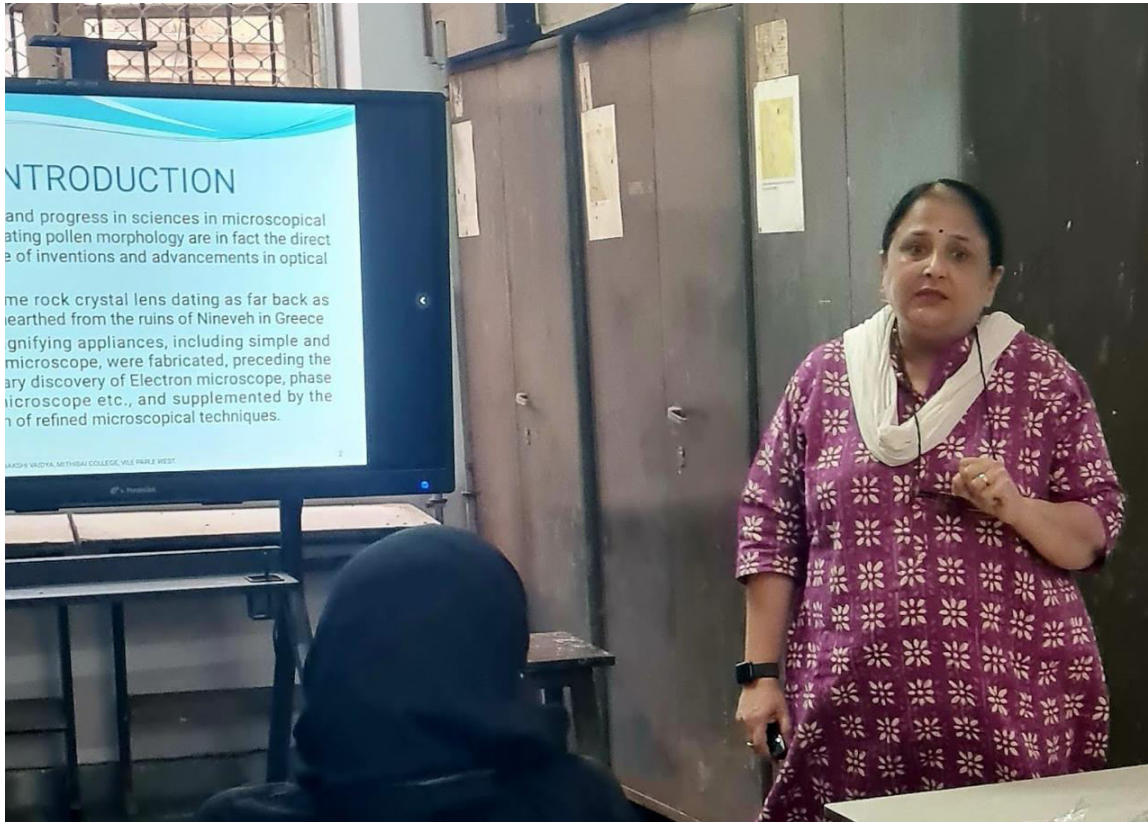
Online Annual Work Seminar: 7th February 2024

Offline Annual Work Seminar: 7th March 2024

Annual Work Seminar for PhD students were conducted on 7th February & 7th March 2024.
Prof. Sagarika Damle & Prof. Rupendra Jadhav were subject expert for the same.

Insights in the field of Palynology

23rd February 2024



A talk on “Insights in the field of Palynology” was conducted on 23rd February 2024. Prof. Meenakshi Vaidya conducted the session for MSc Part-I Students.

One Day Interactive Session on Instrumentation Facility for Biotechnology Students, Kirti College at the department 4th March 2024



A One Day Interactive Session on Instrumentation Facility was conducted for Biotechnology Students of Kirti College at the department on 4th March 2024. Research Scholar Neha Mourya conducted the session. Alumnus Saurabh Bhogle, Faculty at Kirti College, accompanied 22 students.

Paleobotany: A peep into the history

14th March 2024



A talk on “Paleobotany: A peep into the history” was conducted on 14th March 2024. Prof. Nitin Labhane conducted the session for MSc Part-I Students.

One Day Interactive Session on Instrumentation Facility at the Department for Botany Students, SSR College, Silvassa 18th March 2024



A One Day Interactive Session on Instrumentation Facility was conducted for FY & SY Botany Students of SSR College at the department on 18th March 2024. Research Scholars Parvindar Saha, Harshala Naik, Akshay Chavan & Neha Mourya conducted the session. 55 students were accompanied by Dr. Swati Kamthan, HoD, Botany.

Research activities of PhD students, Department of Botany

Sr. No	Name	Event	Topic	Venue	Date
1	Divya Lobo Padinjarekutt	Paper Presentation in International Conference "Recent Advances in Sciences"	HPTLC Method Validation and Development for Quantification of Biomarker β -Sitosterol and Betulinic Acid in the Leaves, Stem and Roots of <i>Spermadictyon suaveolens</i> Roxb.	Online	29 th April 2023
2	Divya Lobo Padinjarekutt	Paper Publication in Biomedical Research Journal	HPTLC Method Validation and Development for Quantification of Biomarker β -Sitosterol and Betulinic Acid in the Leaves, Stem and Roots of <i>Spermadictyon suaveolens</i> Roxb.	Online	17 th January 2024
3	Divya Lobo Padinjarekutt	Poster Presentation in International Conference "Transdisciplinary International Conference on Science and Sustainable Future: Envisioning India @2024" [ICFEI@2024]	'Pharmacognostic Studies and Physicochemical Studies for the Establishment of Quality Parameters of Leaves, Stem and Root of <i>Spermadictyon suaveolens</i> Roxb.'	The Institute of Science, Dr. Homi Bhabha State University, Mumbai in collaboration with IQAC & National Gallery of Modern Art, Mumba	28 th and 29 th February 2024
4	Divya Lobo Padinjarekutt Nikki Huria Neha mourya Anam Ansari	Seminar by Anuradha Raman on	"Career Failures (and successes) in Agricultural Biotechnology"	The Institute of Science.	8 th February 2024

Research activities of PhD students, Department of Botany

Sr. No	Name	Event	Topic	Venue	Date
5	Nikki Huria	Paper Presentation in International Conference "Recent Advances in Sciences"	Establishment of Quality Parameters in the Leaf Extract of Morus nigra L.	Online	29 th April 2023
6	Nikki Huria	Paper Publication in Biomedical Research Journal	Establishment of Quality Parameters in the Leaf Extract of Morus nigra L.	Online	17 th January 2024
7	Nikki Huria Neha Mourya Anam Ansari	Symposium	"Viksit Bharat @2047 -Empowering Young Scientists"	The Institute of science, Mumbai Department of Botany In collaboration with The Institute of science, Mumbai Alumni Association & Bharucha School of Ecology	9 th Jan 2024
8	Nikki Huria	Paper Presentation in International Conference "Transdisciplinary International Conference on Science and Sustainable Future: Envisioning India @2024" [ICFEI@2024]	Pharmacognostic and Phytochemical Studies for the Establishment of Quality Parameters of Leaf of Morus alba L., and Morus indica L.	The Institute of Science, Dr. Homi Bhabha State University, Mumbai in collaboration with IQAC & National Gallery of Modern Art, Mumbai	28 th and 29 th February 2024

Research activities of PhD students, Department of Botany

Sr. No	Name	Event	Topic	Venue	Date
9	Aaditi Tamhane	One Week Course Work on	Research & Publication Ethics	Organised By HBSU, Mumbai	01 st April 2023 to 05 th April 2023
10.	Aaditi Tamhane	Certificate Course on	“Spectroscopy and Chromatography techniques”	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore	24 th to 28 th April 2023
11	Aaditi Tamhane	Online Certification course on	Biophysical Methods and Analytical Techniques	Organised By Microbiologists Society, India	12 th to 18 th October 2023
12	Aaditi Tamhane	Online Certification course on	Mathematics in Biological Sciences: Calculations and Applications	Organised By Microbiologists Society, India	30 th October to 5 th November 2023
13	Aaditi Tamhane	Workshop on	Document Preparation using Latex	Organised By A2Z EduLearning Hub LLP	16 th , 17 th and 18 th November 2023
14	Aaditi Tamhane	Workshop on	Research Article Writing and Publishing	Organised By A2Z EduLearning Hub LLP	03 rd , 04 th and 05 th January 2024
15	Aaditi Tamhane	Conclave on Rural Livelihood development	Centre for Rural Development and Technology	At IIT, Indore	05 th and 06 th January 2024
16	Aaditi Tamhane	Online Certification course on	Fundamentals of Research Methodology	Organised By A2Z EduLearning Hub LLP	08 th , 09 th and 10 th February 2024

Research activities of PhD students, Department of Botany

Sr. No	Name	Event	Topic	Venue	Date	Sr. No
17.	Neha Mourya	Poster Presentation in International Conference "Transdisciplinary International Conference on Science and Sustainable Future: Envisioning India @2024" [ICFEI@2024]	"A simple method to obtain Ursolic acid from some Lamiaceae members".		The Institute of Science, Dr. Homi Bhabha State University, Mumbai in collaboration with IQAC & National Gallery of Modern Art, Mumbai	28 th and 29 th February 2024
18.	Neha Mourya Anam Ansari	Seminar	Seminar on " Indoor pollution and Phytoremediation" by S.C. Sharma(Ex-Scientist, CSIR)		The Institute of science, Mumbai Department of Botany In collaboration with The Institute of science, Mumbai Alumni Association	21 st February 2024
19.	Neha Mourya Anam Ansari	One day workshop	A workshop on " Springer Nature- Scientific writing and book publishing" by Dr. Swati Meherishi (Editorial director)		The institute of science	13 th September 2023

Research activities of PhD students, Department of Botany

Sr. No	Name	Event	Topic	Venue	Date
20.	Harshala Naik	One day Hands on Workshop	One day Hands on Workshop on "Techniques in molecular Diagnostics (ELISA)"	G.M.Khalsa College,Matunga	12 June 2023
21.	Harshala Naik	Book chapter	Nanotechnology for bioremediation of industrial waste water	Springer Nature	05/04/2023
22.	Harshala Naik	Book Chapter	Nanotechnology Based photocatalytic Degradation of pharmaceutical	Springer Nature	19/07/2023
23.	Harshala Naik	Book chapter	Biomaterials used in drug delivery system.	Springer Nature	25/10/2023
24.	Harshala Naik	Reserach Article	Synthesis of a silica Matrix with ZnO nanoparticles for fabrication of recyclable photo degradation system to eliminate methylene blue dye.	Green processing and synthesis volume 12,Pages20230157 Publisher De Gryter	12/01/2023
25.	Harshala Sandip Naik	Conference on "Catalyzing Research & Technology for sustainable Future.	Synthesis of Ag-Doppeed ZnO and there Antibacterial and anti-cancer Activities.	ICT Mumbai	September 14-16,2023
26.	Harshala Sandip Naik	Conference on "Transdisciplinary international Conference on Science and Sustainable Future"	Facile Synthesis of Rutine- functional Zed silver Gold Nanoparticles	Institute of Science Mumbai	28-29 February 2024

Research activities of PhD students, Department of Botany

Sr. No	Name	Event	Topic	Venue	Date
27.	Parvindar Sah	Conference on Fundamental and Application of Nanotechnology (ICFAN).	Research paper presented on One pot synthesis of Paclitaxel Functionalized Gold Nanoparticles.	C.T.THOMAS COLLEGE CHENNAI	5 January 2024
28.	Parvindar Sah	International conference on "Current state of Chernozems."	Degradation of chloropyrifos using silica coated Zn nanoparticles.	Biotechnology and biology of southern Federal University Russia.	17-19 September 2023
29.	Parvindar Sah	One day Hands on Workshop	One day Hands on Workshop on "Techniques in molecular Diagnostics (ELISA)"	G.M.Khalsa College, Matunga	12 June 2023
30.	Parvindar Sah	Book chapter	Nanotechnology for bioremediation of industrial waste water	Springer Nature	05/04/2023
31.	Parvindar Sah	Book Chapter	Nanotechnology Based photocatalytic Degradation of pharmaceutical	Springer Nature	19/07/2023
32.	Parvindar Sah	Book chapter	Biomaterials used in drug delivery system.	Springer Nature	25/10/2023
33.	Parvindar Sah	Reserach Article	Synthesis of a silica Matrix with ZnO nanoparticles for fabrication of recyclable photo degradation system to eliminate methylene blue dye.	Green processing and synthesis volume 12, Pages 20230157 Publisher De Gryter	12/01/2023
34.	Parvindar Sah	Conference on "Catalyzing Research & Technology for sustainable Future.	Synthesis of Ag-Doped ZnO and there Antibacterial and anti-cancer Activities.	ICT Mumbai	September 14-16, 2023
35.	Parvindar Sah	Workshop on proteomics and molecular docking from scratch.	Online mode	-	12-13 october 2023

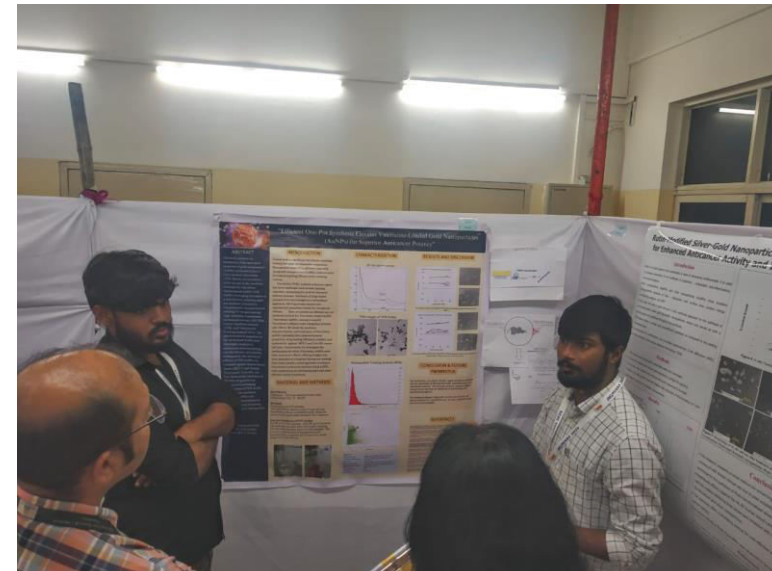
Research activities of PhD students, Department of Botany

Sr. No	Name	Event	Topic	Venue	Date
36.	Anam Ansari	Poster Presentation in International Conference "Transdisciplinary International Conference on Science and Sustainable Future: Envisioning India @2024" [ICFEI@2024]	"Investigating Fungal Biodegradation of Low-Density Polyethylene: A Sustainable Approach for Plastic Pollution Mitigation"	The Institute of Science, Dr. Homi Bhabha State University, Mumbai in collaboration with IQAC & National Gallery of Modern Art, Mumbai	28 th and 29 th February 2024
37.	Anam Ansari	Seminar	Seminar on "Cytotaxonomy: An underexplored discipline of western ghats of India" By Dr. Manoj Lekhak	Department of Biochemistry The Institute of Science, Mumbai	29 th August 2023
38.	Anam Ansari	Seminar	Seminar on "Intellectual Property Rights (IPR) and their key components – comprehensive overview" by Adv. Abhishek Vora and Adv. Prajakta Kotkar	The Institute of Science, Dr. Homi Bhabha State University, Mumbai	30 th August 2023
39.	Khan Ayesha	Paper Presentation in International Conference "Transdisciplinary International Conference on Science and Sustainable Future: Envisioning India @2024" [ICFEI@2024]	Evaluating Ganoderma lucidum adsorption capacity for mercury removal in water	The Institute of Science, Dr. Homi Bhabha State University, Mumbai in collaboration with IQAC & National Gallery of Modern Art, Mumbai	28/02/24-29/02/24

Research activities of PhD students, Department of Botany

Sr. No	Name	Event	Topic	Venue	Date
40.	Sharma Sheetal	One Week Course Work on	Research & Publication Ethics	Organised By HBSU, Mumbai	01 st April 2023 to 05 th April 2023
41.	Sharma Sheetal	Paper presentation in an one day "International conference of G20 summit on Environmental Sustainability and Bioenzymes	"Conservation of the critically endangered plant A. Marmelos through tissue culture and its secondary metabolite production"	Organised by Department of Biotechnology and Academy for administrative careers, University of Mumbai in association with Innovations in Biosciences and Bioenzyme entrepreneurs Academy of India	21 st April 2023
42.	Sharma Sheetal	4 weeks course on Mooc	"Let us fight AMR: an awareness about antimicrobial resistance"	Organised under the Aegis of UNESCO's open education for better World Initiative by Department of Microbiology, Ramnarian Ruia Autonomous College, Mumbai.	23 rd May 2023 to 07 th May 2023
43.	Sharma Sheetal	Poster presentation in a National Conference on Environment Sustainability-Scientific, Economics and Social Implications	"Analysis of Secondary Metabolite Production in A. Marmelos Tissue Culture and Elicitation Techniques"	Organised by Royal College of Arts, Science and Commerce, Mira road (E)	10 st February 2024
44.	Sharma Sheetal	Poster Presentation in International Conference "Transdisciplinary International Conference on Science and Sustainable Future: Envisioning India @2024" [ICFEI@2024]	"Optimizing A. Marmelos Tissue Culture: Sterilization, hormonal Combinations, and Permeabilization strategies for enhanced Secondary Metabolite Production"	The Institute of Science, Dr. Homi Bhabha State University, Mumbai in collaboration with IQAC & National Gallery of Modern Art, Mumbai	28 rd Feb 2023 to 29 th Feb 2023

Research activities of M.Sc. Students at The Department



Abhishek Nishad & Atul Singh of M.Sc. Part-II students from the department have won the First Prize at The Intercollegiate Research Scholar Meet, JIGYASA-2024, organised by SIES College, Mumbai

GATE 2024



Shivang Dubey has qualified the GATE Examination for second consecutive time.