



सत्यमेव जयते

Government of Maharashtra



HBSU

Dr Homi Bhabha State University

Dr. Homi Bhabha State University, Mumbai

The Institute of Science,

Mumbai

ESTD 1920

DEPARTMENT OF ENVIRONMENTAL SCIENCE

2025-26



15, Madame Cama Road, Mumbai, Maharashtra 400032

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ABOUT THE DEPARTMENT

The Department of Environmental Science was established in 1997 under the stewardship of Prof. A.D. Sawant, former Pro-V. C., University of Mumbai. It stands as one of Mumbai's pioneering Environmental Science departments. The department operates on a self-financed basis and provides M.Sc. (by papers) and Ph.D. programs in Environmental Science. Its curriculum has been recently updated in accordance with the National Education Policy (NEP) of 2020.



A MESSAGE FROM THE HOD



Prof. Gayatri Barabde

We welcome prospective students to the Environmental Science Department, a pioneering institution in the realm of environmental education and research. Our Environmental Science program is truly multidisciplinary, offering a diverse range of subjects such as green building, Environmental, Social and Governance (ESG) and more. Our program emphasizes practical experience and real-world applications, offering internships that provide hands-on opportunities. We invite you to join us on this journey of discovery and innovation, as we continue to push the boundaries of environmental science and create a brighter, more sustainable future for generations to come.

PROGRAMMES WE OFFER

M.Sc. Environmental Science

ELIGIBILITY CRITERIA

B.Sc. degree (with minimum 45% marks for open category and 40% for reserved category) in Chemistry / Botany / Zoology / Microbiology / Life Science / Biochemistry / Biotechnology / Geology / Geography / Natural Science / Agricultural Science or B. Sc. Degree with any other subject with Biological Science as one of the subjects at F. Y. / S. Y. level of this University or any other University recognized as equivalent. The selection is on the basis of entrance test with 100 multiple choice questions.



BOARD OF STUDIES

Name	Affiliation
Prof. Gayatri Barabde	Coordinator, Department of Environmental Science, The Institute of Science
Prof. Sushama Ambadekar	Subject Matter Expert, Department of Chemistry, Ismail Yusuf College
Prof. Umesh Kakade	Subject Matter Expert, Department of Botany, The Institute of Science
Dr. Shivani Dhage	Retired Deputy Director, NEERI
Dr. Siddhivinayak Barve	Director, KET's Scientific Research Centre (SRC)
Dr. Ninad Raut	Associate Chief Manager - Wetland Management (Mangroves) at Godrej & Boyce Mfg. Co. Ltd.
Dr. Anil Patil	Subject Matter Expert, Ratnagiri Sub Centre

CREDIT DISTRIBUTION (NEP)

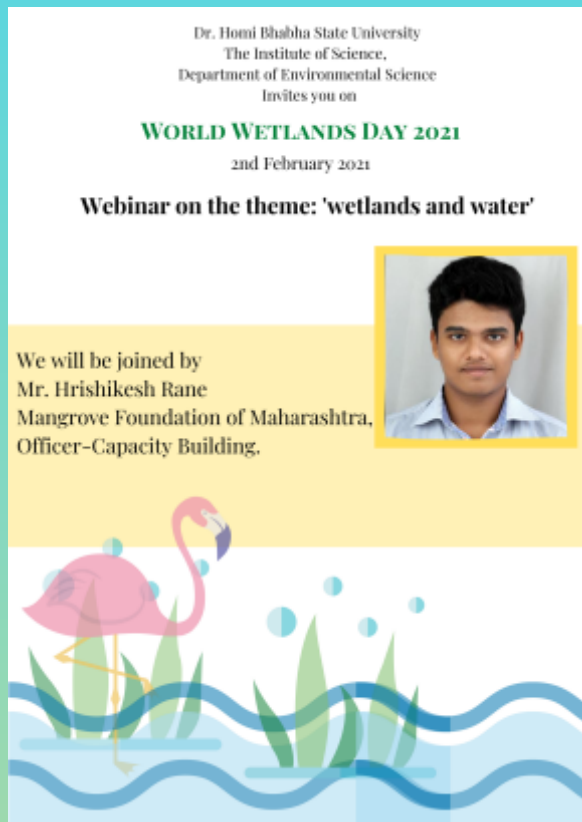
Sem	Major		Minor	OE	VSC, SEC (VSEC)	AEC, VEC, IKS	OJT/FP	CUM CR /SEM	Degree / Cum Cr.
	Mandatory	Elective							
I	DSC1 -1 Ecology & Biodiversity MSEVDC101T, + MSEVLB101P (4+2)	DSE1 -1 Environmental Pollution MSEVDE101T + MSEVLB103P (4+2)	RM Research Methodology MSEVRM101T (4)					22	44 PG Diploma in Discipline
	DSC1 -2 Environment & Natural Resources MSEVDC102T + MSEVLB102P (4+2)								
II	DSC1 -3 Environmental Monitoring & Assessment MSEVDC201T + MSEVLB201P (4+2)	DSE1 -2 Green Chemistry & Instrumentation MSEVDE201T + MSEVLB203P (4+2)					OJT/FP On job training/ Field Project MSEVOJ 201T (4)	22	
	DSC1 -4 Pollution Control Technologies & Environmental Laws MSEVDC202T + MSEVLB202P (4+2)								
Cum Cr.	24	12	4				4	44	
Exit Option: Award of PG Diploma in Discipline with 44 credits OR Continue with Discipline.									
III	DSC1 -5 Biostatistics (4+2)	DSE1 -3 Industrial Hygiene & Chemical Safety (4+2)					RP Review Paper (4)	22	88 PG Degree in Discipline
	DSC1 -6 Environmental Toxicology (4+2)								
IV	DSC1 -7 Ecotechnology & Climate Change Mitigation (4+2)	DSE1 -4 Environmental Management & Modelling (4+2)					RP Research Project (4)	22	
	DSC1 -8 Sustainable Development (4)								
Cum Cr.	46	24	4				14	88	
Two-year PG Degree in Discipline with 88 Credits.									

Abbreviations:

Generic/ Open Electives: OE; Vocational Skill and Skill Enhancement Courses: VSEC; Vocational Skill Courses: VSC; Skill Enhancement Courses: SEC; Ability Enhancement Courses: AEC; Indian Knowledge System: IKS; Value Education Courses: VEC; OJT: On Job Training; Internship/ Apprenticeship; Field projects: FP; Co-curricular Courses: CC; Community Engagement & Service: CEP; RM: Research Methodology; Research Project: RP ** OJT/FP: Student has to earned the requisite 04 credits of on-the-job training (OJT) / Field Project (FP) during summer break, after completion of the second semester of the first year in the respective Major Subject.

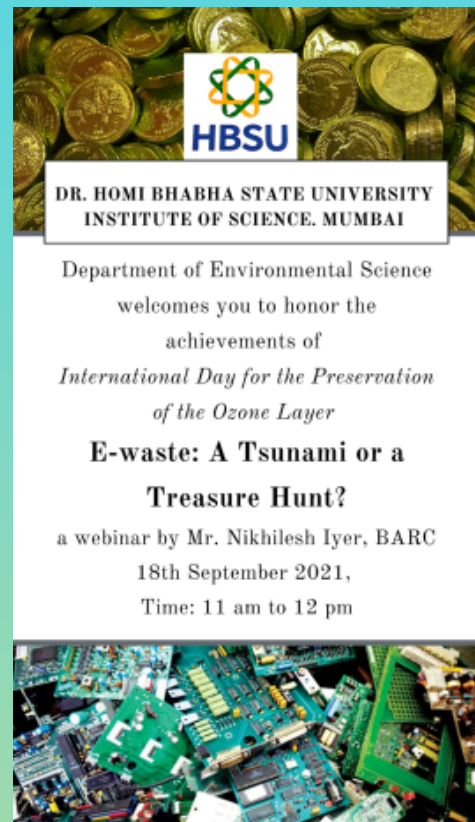
FESTS & EVENTS

Events of 2021-22



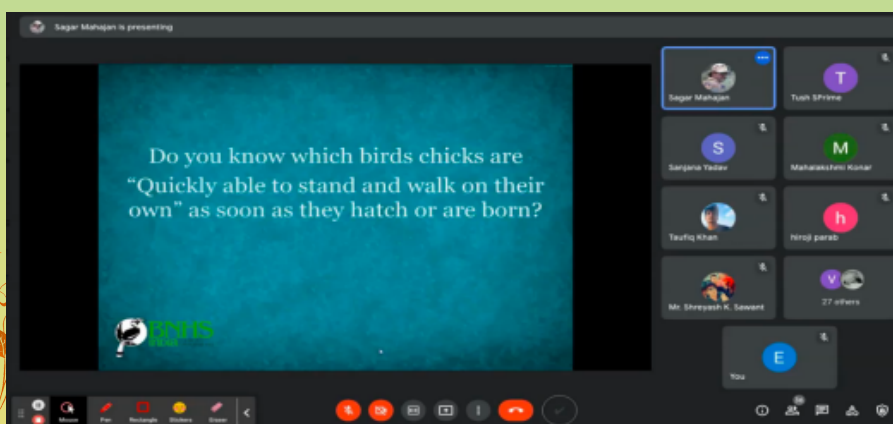
World Wetland day 2021

Date : 02 February 2021
Time : 2:00 pm to 4:00 pm
Theme : wetlands and water
Speaker : Mr. Hrishikesh Rane

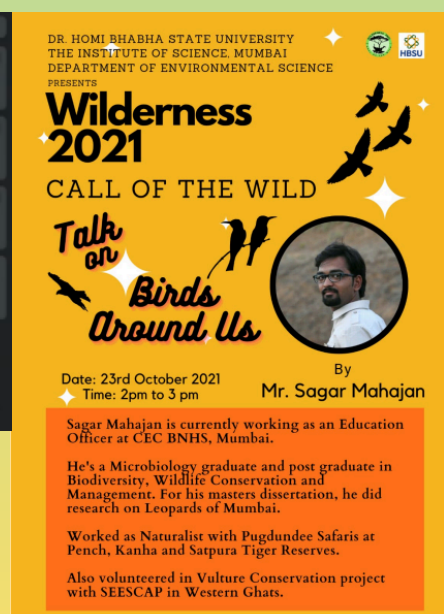


E-waste: A Tsunami or A treasure Hunt 2021

Speaker: Mr Nikhilesh Iyer, BARC
Date 18th September 2021
Time: 11 am to 12 pm



Wilderness 2021



Events of 2022-23



Dr. Homi Bhabha State University
The Institute of Science
Department of Environmental Science
Presents

WILDERNESS 2022

Only One Earth
16th - 17th September 2022

Day 1 (16th September)		Day 2 (17th September)	
Registration 9 AM	Opening Ceremony & A seminar on The Vanishing Grassland and Cheetah 11 AM	Earth Melody (Song) 10 Pm-1 pm	Registration 9 AM
Mission: Only One Earth (Environmental Problem Disclosure: Online) 12.30 Pm	Earth Wise (Quiz) 2 Pm	Mission: Only One Earth (Environmental Solution Presentations) 10 Pm-1 pm	EcoGlamour (Fashion Show) 10 Am-1 pm
Quest For Wilderness (Treasure Hunt) 2.15 Pm	Essentials of Earth (Photography) Online Submission	Paryavaran Sahitya Poetry Online Submission	Wild Columnist Article Writing Online Submission
Nature Zoom (Videography) Online Submission	Eco Mental (Meme) Online Submission	Prize Distribution Ceremony 2.30 Pm-3.30pm	Green Thoughts (Slogan) Online Submission

Scan QR code for rulebook and registration link
Note: Registration link is on the 1st page of Rulebook

For online registrations and queries contact us on:
Sahil: 7506760515
Mukul: 7391967255
wilderness.21
evswilderness@gmail.com



Stills from Earth Melody, Eco Glamour and Environmental Problem Solving



Stills from Inauguration Ceremony and Speaker-Students Interaction

Wilderness 2022



Stills from Treasure Hunt and Quiz Competition

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THE INSTITUTE OF SCIENCE, MUMBAI

Department of EVS Invites you all
World Wetland day talk on
Wetland conservation

Gargi Vijayaraghavan
Conservationist and Information officer at the Environmental information, awareness, capacity building and livelihood programme (EIACP), BNHS

Coordinator
Prof Gayatri Barabde

8th Feb 2023
Room no 45
2- 3 PM

World Wetland Day 2023

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DEPARTMENT OF EVS INVITES YOU ALL

Environment
Social
Governance

How sustainability fits into financial Decision making?

Mr. Sagar Khanna
Senior Associate:
Ratings and ESG Advisory
NatWest Bank

Coordinator
Prof Gayatri Barabde

4th March 2023
Mathematics department
2-3 PM



KEY FEATURES

The Department of Environmental Science has a well-maintained laboratory with the basic instruments required for conducting the practical included in the syllabus of the department. It has its own library with the reference books which can be easily accessed by the students. The department has been in forefront in carrying out the basic and cutting-edge research. It encourages the students and faculties to participate in national and international conferences and present their research. It has conducive environment for publishing the research work in national and international peer reviewed journals as well as books.

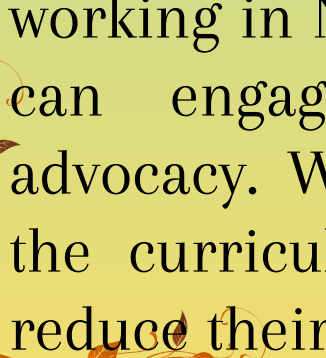


INTERNSHIP, PLACEMENT & JOB OPPORTUNITIES



The department provides all the required support to the students for pursuing their internship within Maharashtra as well as outside the state. Some of the alumni students are highly placed in various industries and companies of national and international repute like Shakti Plastic Industries Limited, Adani Electricity Mumbai Limited, Organica Biotech, Bombay Natural History Society (BNHS), CRISIL Limited, Institutional Shareholder Services (ISS) Stoxx just to name a few.

The students completing M.Sc. course in Environmental Science have multiple job opportunities like Government jobs where they can work in monitoring, policy development and enforcement. They also have the option of working in Non-profit organizations where they can engage in research, education and advocacy. With the knowledge gained through the curriculum, they can help businesses to reduce their environmental impacts.



CONTACT DETAILS



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RECYCLE

