

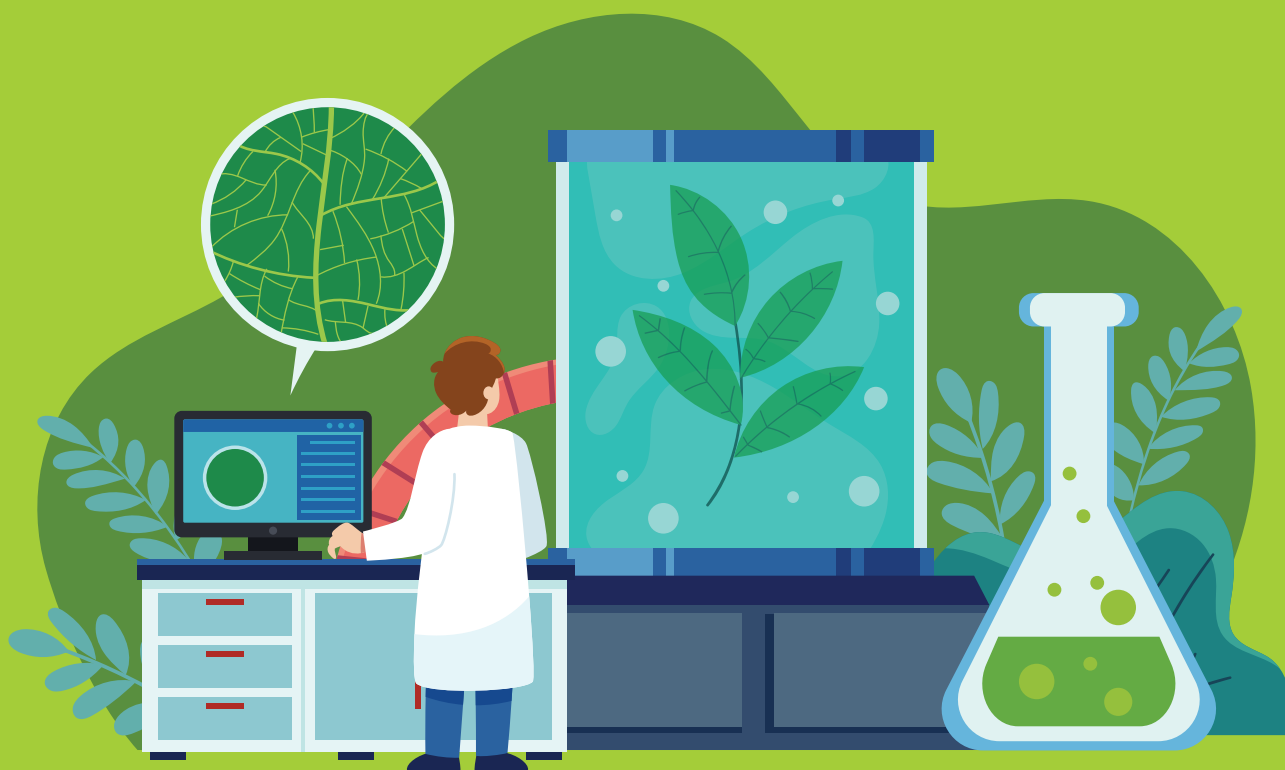
# ENVIRONMENTAL SCIENCE

SCHOOL OF BASIC AND  
APPLIED SCIENCES  
ADAMAS UNIVERSITY

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- Do you aspire to be part of the solution to the environmental damage caused by past generations?
  - Be a catalyst for change—pursue a career in Environmental Science and join the global movement for a sustainable future.
  - Create meaningful impact—open doors to diverse and rewarding career opportunities with a degree in Environmental Science.
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## Programmes offered:

- B.Sc. Environmental Science and Sustainability
- M.Sc. Environmental Science and Sustainability
- Ph.D. Environmental Science



## Key Highlights

- Focus on Emerging Fields: Environmental, Social, and Governance (ESG), Sustainability Reporting, GHG (Greenhouse Gas) Accounting, Circular Economy, Green Finance, and Environmental Impact Assessment (EIA)
- Highly experienced faculty members specialised in various domains and with globally recognized certifications on sustainability and climate risk.
- Curriculum includes Machine Learning (ML) and Artificial Intelligence (AI) in environmental research and data analysis.

## USPs:

- Collaborations with global universities.
- MoUs with industries and environmental organisations of international repute.
- 100% placement assistance in core domains (in companies like S&P Global, Manikaran Power, etc.).
- Mandatory industrial internships at TATA Power, TATA Steel, Ultratech Environmental Consultancy etc.
- Special classes for JAM/NET/GATE examinations and grooming sessions for campus recruitment interviews.
- Highly qualified faculty members with experience of working in state pollution control board, IIT, ICMR and CSIR Laboratories.
- Masterclasses, Online and offline conferences, seminars, workshops and guest lectures by eminent national and international guests from both Academia and Industry.

## Focus Areas:

- Climate Change Action/Adaptation and Mitigation
- Sustainability
- ESG
- Water/Wastewater Treatment
- Air Pollution Control
- Biodiversity Conservation/Wildlife Management
- Renewable energy
- Environmental Impact Assessment (EIA)
- Occupational Health safety and Environment
- Environmental Data Analytics/AI-ML in Environmental Management



Shape your future with B.Sc. and M.Sc. in Environmental Science and Sustainability at Adamas University. Alongside core scientific knowledge, gain cutting-edge skills in AI, Machine Learning, and Environmental Data Analytics. Step into one of the fastest-growing global career domains – from climate action to green finance and ESG leadership.

### Dr. Moumita Dey

Associate Dean, School of Basic and Applied Sciences  
Adamas University, Kolkata

## Eligibility for admission to B.Sc. Environmental Science and Sustainability

10+2 (Min. 60% in aggregate) from any recognised board with any three of the following subjects: Environmental Science, Physics, Chemistry, Biology, Mathematics, Statistics, Agronomy, Computer Sc., Nutrition, Home Science, Economics, Agriculture, Geography, Anthropology, Psychology, Sociology and Philosophy.

## Eligibility for admission to M.Sc. Environmental Science and Sustainability

50% overall in graduation in science (B.Sc.), technology (B.Tech) or any other allied disciplines.

## Global Collaborations:

- A research collaboration with the University of York, UK on the project titled "Indoor Air Quality in Homes of the Global South" involving students from Adamas University, providing them with the opportunity to participate in meaningful research.

[https://youtu.be/msoUqu\\_GjYo?si=fH4oCL3pUs0VSg8v](https://youtu.be/msoUqu_GjYo?si=fH4oCL3pUs0VSg8v)

<https://www.york.ac.uk/yesi/yesi-fellows/air-quality-in-homes-of-global-south/>

**ADAMAS UNIVERSITY**

Adamas University in association with University of York (UoY) is organizing

**An Indo-UK Workshop on Addressing Indoor Air Quality (IAQ) Challenges in Kolkata: A Case Study in the Global South**

**Highlights**

- Discussion of the project outline
- Placate group discussion with students and vulnerable groups
- Training and deployment of low-cost sensors to participants for data collection

**Resource Persons:**

- Dr. Gargan Das, Assistant Professor and Principal Investigator, University of York, UK
- Dr. Deepanjan Majumdar, Senior Principal Scientist, CSIR-NEERI Kolkata, India
- Dr. Gitanita Naski, Assistant Professor, AIIMS Kalyani, India
- Dr. Saifi Inhat, Assistant Professor, IIT Roorkee, India
- Dr. Indrani Ghosh, Assistant Professor, Adamas University, India

**Organizing Team Members:**

Dr. Indrani Ghosh, Dr. Prantik Banerjee, and Dr. Tanmay Kumar Dey

Please contact us at 9330495008 or mail us at [argan.das@york.ac.uk](mailto:argan.das@york.ac.uk) for any doubts/queries.

Date: 15<sup>th</sup> May 2024 | Time: 10 AM to 4 PM | Venue: Room No. 6105, Mechanical Building first floor

Project funded by:

Project Partners:



- Dept. of Environmental Science, Adamas University jointly organised the City Nature Challenge, a global biodiversity event led by the California Academy of Sciences and LA's Natural History Museum, in collaboration with Nature Mates Nature Club and Diversity India in 2024 and 2025.



## Regular Industry Connect Programmes

**Invited lecture series:**  
**Sustainable Futures: Expert Talks on the Environment**

Topic: Planetary Boundary and Nature Based Solutions

**Guest Speaker:**  
**Mr. Arnab Basu**  
Director (Sustainability Operations), ERM, Gurgaon and Sustainability Consultant & Educator, Sustainability/ EHS Advisor and Writer

**Venue:** Rabindranath Tagore Auditorium, Adamas University

Organized by: Faculty of Environmental Science, Dept. of Chemistry, Adamas University  
Chair: Prof. Dr. Radha Tarnal Goswami, Pro-VC, Adamas University  
Co-Chair: Prof. Dr. Binmal Kumar Sarkar, Dean, SOBAS  
Convener: Dr. Rupam Sen, HoD, Dept. of Chemistry  
Co-Convener: Dr. Prantik Banerjee  
Coordinators: Dr. Indrani Ghosh, Dr. Tanmoy Kumar Dey

**JAN 14, 2025**  
2:00 PM to 4:00 PM

**MEET THE LEADERS**

Title of the talk:  
**OPPORTUNITIES IN HEALTH, SAFETY AND ENVIRONMENT**

Date: 7th May 2021  
Time: 4.00 PM - 5.30 PM  
Platform: Zoom

Organized by:  
Faculty of Environmental Science (Department of Chemistry), School of Basic and Applied Sciences, Adamas University

Convener:  
Dr. Indrani Ghosh, Assistant Professor (Environmental Science)  
Co-Convener:  
Dr. Tanmoy Dey, Assistant Professor (Environmental Science)  
Coordinator:  
Dr. Prantik Banerjee, Assistant Professor (Environmental Science)

Link for Registration:  
<https://adamu.gla/vodHLS41u4WNGRwIA>  
For any queries please contact at:  
8106631196 / 9020402508

Registration a fee and certificate will be provided to all participants.

**Resource Person**  
**Chitra Murali**  
Senior EHS Consultant, Ramboll, India



## Our Potential recruiters!!!

Sustainability	Carbon Trading/Renewable Energy	EIA (Environmental Impact assessment)	Env. Analysis/ Env. Monitoring	Env. Mgmt/Alternative fuel
PWC KPMG Deloitte S&P Global ERM AECOM ARCADIS Wipro TCS	ONGC Manikaran Power and others	Ultratech Environmental Consultancy ERM AECOM Ramky	SGS India Centre for Science and Environment (CSE), Council on Energy, Environment and Water (CEEW) World Resources Institute (WRI)	TATA Power Birla group EATON Reliance UPL Pvt. Ltd L&T TERI Ramky

## Career Paths in Environmental Science and Sustainability:

### Career opportunities in industry sector

- Sustainability Officer
- ESG Analyst
- Pollution control specialist
- Consultant- Environmental Impact Assessment, Environment, Health and Safety.
- Environmental entrepreneurship.
- Manager/Process scientist- Water and Wastewater treatment.
- GIS analyst or Land use planner.
- Environmental remediation
- Climatologist/Meteorologist
- Ecologist/Conservation biologist
- Marine Biologist/Oceanographer
- Environmental Data Analysis/Application of Machine Learning in Environmental Science

### Job opportunities in govt. sector

- Indian/State Forest Service
- Indian Environmental Service (Proposed by Govt. of India)
- Scientist in State or Central Pollution control boards.
- Specialist in Waste Management/ Contaminant cleanup agencies
- Environmental Impact Assessment reviewer in Ministry of Environment, Forests and Climate Change.
- Auditor- Energy and Environment
- Auditor- Occupational and Chemical safety.
- Coordinator- Public Health, Hygiene & Sanitation
- Environmental Law consultant in National Green Tribunal.
- Ecologists in Govt. agencies.

## Some of our notable alumni:



**Ms. Suryatapa Das**

M.Sc. Environmental Science,  
2020-2022  
Research Analyst  
S&P Global, Hyderabad, India



**Ms. Ahana Paul**

M.Sc. Environmental Science,  
2020-2022  
EIA Specialist  
Shyam Enviro Consultants, Kolkata



**Ms. Saptarni  
Chakraborty**

M.Sc. Environmental Science,  
2021-2023  
Environmental Chemist,  
SGS India Pvt. Ltd., Kolkata



**Ms. Sayori Dasgupta**

M.Sc. Environmental Science,  
2021-2023  
Environmental Manager,  
Vardan EnviroNet LLP, Manesar,  
Haryana



**Ms. Neha Kumari**

M.Sc. Environmental Science,  
2021-2023  
Specialist- Nature Based Climate  
Solutions Terracon Ecotech Private  
Limited, Mumbai



**Mr. Anamitra Tikadar**

M.Sc. Environmental Science,  
2023-2025  
Qualified UGC -NET in Environmental  
Science, December 2024

## Hands on Training:

- Sophisticated Laboratory instruments like UV-Visible Spectrophotometer, Gas Chromatograph, Atomic Absorption Spectrometer.
- Field instruments



## Research and Innovation:

- 50+ Journal articles (SCI/SCOPUS) in last 5 years (including High Impact Journals)
- 5+ Seed Projects from Adamas University for pursuing Research

## Beyond the Classroom: Experiential Learning Journey



Visit to Baranti, Purulia, December 2021



Visit to a Sewage Treatment Plant (STP) under Namami Gange Scheme, June 2022





Socio-economic survey at Susni Island, Bakkhali, West Bengal in December 2022



Visit to a Sewage Treatment Plant (STP) under Namami Gange Scheme, May 2023



Visit to Buxa-Jayanti, Alipurduar, February 2024



Visit to Botanical Survey of India laboratory, Acharya Jagadish Chandra Bose Indian Botanic Garden, Shibpur, Howrah, February 2024





Setting of Camera Trap for Biodiversity study by students at Chilapata Forest, Alipurduar, West Bengal in March 2025

## Our Faculty members:



### Dr. Indrani Ghosh

Assistant Professor and Head of the Dept.  
Environmental Science

#### Academic Qualifications and Certifications

Ph.D. (Environmental Science and Engineering) from IIT Bombay (2015)  
Qualified GATE (2008)  
M.Sc. in Environmental Science from Asutosh College, University of Calcutta (2008)  
B.Sc. (Hons.) in Chemistry from Bethune College, University of Calcutta (2006)

#### Specialisation areas:

Wastewater Engineering, Bioremediation, Environmental Chemistry, Microalgal treatment of wastewater, Statistical modelling and Computation, urban ecology



### Dr. Prantik Banerjee

Assistant Professor  
Environmental Science  
Global Association of Risk Professionals – Sustainability and Climate Risk (GARP-SCR)  
Certificate Holder

#### Academic qualifications and Certifications:

Ph.D. in Environmental Science from University of Calcutta (2015)  
P.G. Diploma in Environmental Management from Annamalai University (2012)  
M.Sc. in Environmental Science from University of Calcutta (2008)  
B.Sc. (Hons.) in Chemistry from University of Calcutta (2006)

#### Specialisation areas:

Sustainability and Climate Change, Environmental chemistry, Ecology, Biodiversity, Carbon Accounting, Pollution monitoring, assessment and control, EIA



### Dr. Tanmoy Kumar Dey

Assistant Professor  
Environmental Science

#### Academic qualifications and certifications:

Ph.D. in Environmental Science from University of Calcutta (2017)  
Qualified GATE (2011)  
M.Sc. in Environmental Science from University of Calcutta (2009)  
B.Sc. in Zoology (Hons.) from University of Calcutta (2007)

#### Specialization Areas:

Natural product biochemistry, Nanoceutical formulation, Infection immunology



## Dr. Vijoyeta Chakraborty

Assistant Professor  
Environmental Science

### Academic qualifications and certifications:

Ph.D. in Science from Jadavpur University (2022)  
DST-SERB SRF (2019)  
Qualified UGC-NET (2017)  
M.Sc. in Environmental Science from University of Calcutta (2016) (Gold Medallist)  
Certified Environmental Analyst (2014)  
B.Sc. in Environmental Science (Hons.) from University of Calcutta (2013) (Gold Medallist)

### Specialization Areas:

Nano material synthesis and application in pollution control technologies, Advanced wastewater treatment technology, Air pollution control and monitoring, Environmental toxicology, Environmental microbiology and bioremediation.



## Dr. Moumita Chakraborty

Assistant Professor  
Environmental Science

### Academic qualifications and certifications:

Ph.D. (Environmental Science) from G. B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand (2023)  
Qualified ICAR SRF (2018)  
Qualified West Bengal SET (2023)  
M.Sc. in Environmental Science from University of Kalyani (2015)  
B.Sc. (Hons.) in Environmental Science from Berhampore Girls' College, University of Kalyani (2013)

### Specialization Areas:

Environmental microbiology and bioremediation, EHS, EIA, Nanoremediation.



## Ms. Aditi Ghosh Hazra

Teaching Assistant  
Environmental Science

### Academic qualifications and certifications:

M.Sc in Environmental Science from University of Calcutta (2015).  
B.Sc (Hons) in Botany from Raja Peary Mohan College, University of Calcutta (2013)

### Specialization Areas:

Environmental Ecology, Conservation biology, Sustainability.



## Ms. Rupa Chaudhuri

Teaching Assistant  
Environmental Science

### Academic qualifications and certifications:

Qualified GATE 2023,2024.  
M.Sc in Environmental Science from University of Calcutta (2021).  
B.Sc in Microbiology from Dinabandhu Andrews College, University of Calcutta (2019).

### Specialization Areas:

Environmental Carcinogenesis, Environmental Microbiology,  
Cell Biology, Molecular Biology.



## Ms Dwitiya Mondal,

M.Sc.  
Lab Technician



## Mr. Somnath Chakraborty,

M.Sc.  
Lab Technician



## We have been regularly highlighted in mainstream media

Dr. Prantik Banerjee is regularly invited as guest speaker (Environmental expert) at various news media, as his expertise lies in Pollution and Climate Change



<https://www.youtube.com/live/zHai4uaJ0mo>



<https://www.youtube.com/watch?v=NheacBDJyHY>

Dr. Indrani Ghosh is regularly invited to various panel discussions on waste management, climate change etc.

### Role of youth in countering climate change

CHRONICLE NEWS SERVICE

KOLKATA: Eastern India's fastest growing e-waste management company, Hulaidek Recycling Pvt Ltd, hosted a panel discussion on the eve of Earth Day on "The role of youth in countering climate change".

Earth Day is celebrated across the globe to create environmental literacy for the youth. The theme for this year is "Invest in our Planet". For over a decade, matters such as global warming, pollution and waste generation have been discussed repeatedly - however the current heatwave in the city and the country are proof of the impending climate crisis in the coming future. The time has come for people across the country to choose sustainable alternatives, proper waste management solutions and take small steps together.

"We have organised this panel discussion with some of



the most prestigious institutions in Kolkata to discuss the role of educational institutions in spearheading climate action programmes and initiatives taken by them to encourage the students to become environmentally conscious citizens. Youth are the future of our country and our planet. Therefore, making our younger generation aware about sustainable practices and climate action is imperative. Our sincere thanks to all the panelists for being with us today," said Mr Nandan Mall, Founder and Managing Director, Hulaidek Recycling Pvt Ltd. India is the fifth largest

e-waste producer globally and with over 80% of the e-waste in India being managed by the informal sector, the scope of the Extended Producer Responsibility (EPR) & Producer Responsibility Organisations (PRO) is bound to increase in the coming days.

The panelists who participated in the discussion were Rev. Dr. Dominic Savio, SJ, Principal, St Xavier's College, Prof Manushi Roychowdhary, Co Chairperson, Techno India Group, Prof (Dr.) Deepali Sengupta, Principal, JD Birla Institute, Dr Mahua Banerjee, Director, IMI-Kolkata, Mr. Aniruddha Bhattacharyya, Assistant Environmental Engineer, West Bengal Pollution Control Board, Dr Tanay Pramanik, Professor, University Of Engineering & Management, Ms. Indrani Ghosh, Asst Professor, Adamas University and Ms. Mom Mitra, Head of Marketing & Communication, ILEAD.

### পৃথিবী দিবসে প্যানেল ডিসকাশনের আয়োজন করল হুলাইডেক

পৃথিবী দিবসের ৫০তম বার্ষিকী উপলক্ষে হুলাইডেক প্রাইভেট লিমিটেড পৃথিবী দিবসের সন্ধ্যায় প্যানেল ডিসকাশনের আয়োজন করা হয়। আয়োজক বিষয় ছিল 'দ্য রোল অফ ইউথ ইন কাউন্টারিং ক্লাইমেট চেঞ্জ'। এই আলোচনায় যে সব অতিথিরা অংশগ্রহণ করেন তারা হলেন, রেক ডা.ডেভিনিক সেনগুপ্ত, এসসি, প্রিন্সিপাল, সেন্ট জেভিয়ার্স কলেজ, অধ্যাপক মানুশী রায় টেকনো ইন্ডিয়া গ্রুপের কো চেয়ারপার্সন, অধ্যাপক ডা. দিপালী সেনগুপ্ত সহ আরও অনেকে। এছাড়াও উপস্থিত ছিলেন হুলাইডেক প্রাইভেট লিমিটেডের ম্যানেজিং ডিরেক্টর ও প্রতিষ্ঠাতা নন্দন মল।



ডিরেক্টর ও প্রতিষ্ঠাতা নন্দন মল বলেন, কলকাতার বেশ কয়েকটি নামকরা প্রতিষ্ঠানের সঙ্গে যৌথ উদ্যোগে আমরা এই প্যানেল ডিসকাশন চালু করেছি। শিক্ষা প্রতিষ্ঠানের ছাত্র নিয়ে আলোচনা হয়। যুবক-যুবতীরা দেশ এবং আমাদের পৃথিবীর ভবিষ্যৎ পর্যালোচনা করে অংশগ্রহণকারী সমস্ত অতিথিকে আমরা ধন্যবাদ জানাই।

Dr. Tanmoy Kumar Dey is often invited to speak at Radio Kolkata FM channel.

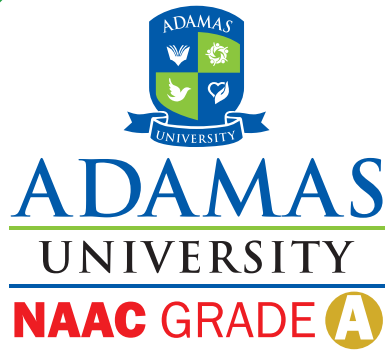


Our Student, Ms. Afia Tasnim has recently featured at Doordarshan Uttarakhand, as she was at a conference organised by G. B. Pant University of Agriculture and Technology, Pantnagar



For any further details please visit:  
<https://science.adamasuniversity.ac.in/chemistry/>  
 Ph No.- +9930490508, +918100631196





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