



Dated : 04/01/2022

Support - Government energy-efficient technology policy development

Amity University Rajasthan (AUR) promotes informing and supporting the government in environmental sustainability and reducing its carbon footprint through providing systematic education, conducting research, and publishing the outcomes in various fields of environment and technology.

Amity Institute of Biotechnology

The University offers courses on environmental studies-

- **EVS001; Environmental Sciences**
 - **Core module syllabus for environmental studies for undergraduate courses of all branches of higher education, prescribed by the University Grant Commission (UGC) is running for all UG programs across Amity University Rajasthan.**
- **AUR offers the following courses as electives and for minor tracks:**
 - **BTB734; Fundamentals of Carbon Footprints**
 - **MSB 334; Carbon Credits and Trading**

Amity Institute of Microbial Technology - AIMT -

AIMT is implementing R&D in frontier areas of Environmental Microbiology and Studied on microorganisms and its involvement in Environmental Processes which can mimic and industrialise to address majority of the current problems eg. Waste Land Rehabilitation, Industrial Effluent Treatment, Solid & Liquid Waste, Farm Waste Management. Besides allotting doctoral research problems department has designed dedicated courses on *MMC 302 - Environment and Agricultural Microbiology and and BSM 101, Introduction of Microbiology- Environment in M.Sc. and B. Sc. respectively.*

AIMT has recently **awarded Doctoral Degree on Felspar waste land rehabilitation to Dr. Rajbala Junia** and Soil fertility enhancement to Dr. Oriodon Kingsley.

Amity School of Applied Sciences -

ASAS offers UG & PG in basic sciences and inducted relevant courses which are directly addressing environmental issues including chemicals of life, in Majority of the cases Doctoral Scholars made multidisciplinary objectives by integrating their studies with Biotechnology - Microbiology - Human Health - Management. Department also executes sponsored R&D which addresses the same.

AMITY CENTRE FOR OCEAN-ATMOSPHERIC SCIENCE & TECHNOLOGY (COAST)





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The courses are running in ACOAST on climate science and/or environmental sustainability.

Amity University Rajasthan provide *post-graduation programme leading to MSc in Atmospheric and Environmental Science*. The objective of the programme to promote interdisciplinary research in cutting-edge science & technology and public services. It encompasses numerical modeling of atmosphere and ocean, monsoon studies, high impact severe weather forecasting, air pollution, land-air-sea interaction, and climate change to understand its physical and social consequences. The programme will also develop a strong research and capacity building in the area of atmospheric and climate science.

In addition, the University also provide minor track degree in Climate Science for undergraduate students

Research Centre with a specific focus on environmental sustainability

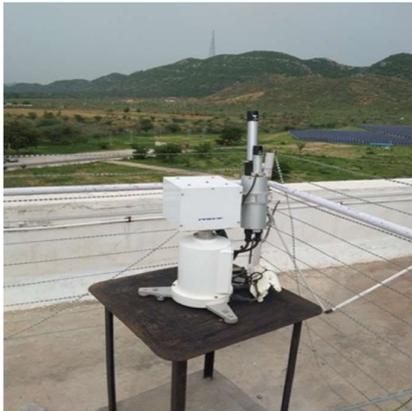
The Amity Centre for Ocean-Atmospheric Sciences and Technology (ACOAST) was established with a view to developing manpower in Weather and Climate Sciences. Environmental monitoring and analysis, The Centre is equipped with high performance computational resources for the running Numerical Weather Prediction models for weather and climate systems, understand the physics and dynamics of weather extremes like severe thunderstorms, tropical cyclones, flood, landslide, drought, Monsoon System and its variability, Oceanography, coupled Systems, Disaster Management & Mitigation etc are the aspects of interest.

The highly qualified faculty not only teach in graduate and postgraduate programmes but also undertakes the cutting-edge research on climate science. *The faculty of the Centre supervises PhD and MS student and the research outcome had been published in peer reviewed journals.* The Environmental Monitoring facility established at ACOAST for continuous monitoring of black carbon concentration and Aerosol concentration. The centre also engaged in outreach activity on community science programme air quality for school children in Jaipur.



Environmental Monitoring Facility





Sky Radiometer

Aethalometer

Community Science Programme on Air Quality

Community Science Programme on Air Quality

On the occasion of the Community Science Programme on Air Quality and the Launch of the E-Learning Portal on 24 December, 2022
Shri Shyam Vidhyapeeth Senior Secondary School, Chandwaji

Clean air begins with me

<https://www.earthwatchindia.org/elearning/air-quality-home>
Citizen Science | Experiential Learning



AMITY CENTRE FOR WATER STUDIES AND RESEARCH (ACWSR)

Amity Centre for Water Studies and Research, Amity University Rajasthan has established collaboration under an MoU with the University of West of England (U.W.E.), Bristol, United Kingdom.





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Activities of the Centre with a focus on Environmental Sustainability

- The following activities have fostered the concept of environmental sustainability among UG and PG students at both universities:
 - Webinar by Dr Mark Everard, Associate Prof., UWE successfully held on Aug 11th,2021.
 - 373 registrations and 308 participating UG students of AUR for whom the lecture along with the study material provided by Dr Everard were greatly helpful in the mandatory value-added course of 03 credits. **(Ann 1)**.
 - Invited webinar by UWE by Prof Shruti Mathur on ‘Habitats of Water on Earth’ on on 14-12-2021 at 2.15p.m. for M.Sc. students of U.W.E. **(Ann 2)**.
- The following activity has helped to create awareness amongst the masses:
 - Invited talk on ‘How Critical is Water Conservation for Resolving the Water Crisis’ by Prof. Shruti Mathur aired on All India Radio, Jaipur station at 7.00 a.m. on Jul 26th 2022. **(Ann 3)**
- Areas of collaborative research projects and their respective experts available at AUR and UWE identified by mutual consent. Above information sent to admission cell with due permission from Hon’ble VC Sir to be uploaded on AUR website to draw attention of Ph.D. aspirants. **(Ann 4)**

F - Adobe Acrobat Reader (64-bit)
Help

I - Shruti Math... x Letter of invitation ...

3 / 9 100%

From: Shruti Mathur <smathur1@jpr.amity.edu>
Sent: Thursday, March 2, 2023 3:14 PM
To: Mark Everard <Mark.Everard@uwe.ac.uk>
Cc: Chad Staddon <chad.staddon@uwe.ac.uk>; Shikha Sharma <ssharma2@jpr.amity.edu>; REGISTRAR AMITY UNIVERSITY RAJASTHAN <registraraur@jpr.amity.edu>; Vice-Chancellor, Amity University Rajasthan, Jaipur <vcaur@jpr.amity.edu>
Subject: Activity under the MoU between AUR, Jaipur,India and UWE, Bristol,U.K.

Dear Dr. Everard,
 Greetings of the day!
 As per our correspondence and mutual consent, (Please see trail mail below), under the provisions of the MoU between our two Universities, the following topics have been identified for joint supervision of prospective candidates working towards a Ph.D. degree:

Ph.D. Topics under Ph.D. in Environmental Sciences	Eligibility	Expert (AUR)	Expert (Univ of West of England, Bristol, U.K.)
Microbial bioremediation of waste water	M.Sc Life Sciences:Microbiology/Biochemistry/Biotechnology/Botany/Zoology	Prof.Shruti Mathur	Dr. Darren Reynolds





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7/10/23, 2:58 PM

Mail - Shruti Mathur - Outlook

Monitoring and risk analysis of water-related diseases	M.Sc./M.Tech.: Environmental Sciences/Environmental Engineering/Statistics	Dr. Era Upadhyay	Dr Chad Staddon
Water resource management	B.Tech.Chemical Engineering/Environmental Engg.	Dr Shatrughan Singh	Dr Mark Everard Dr Chad Staddon
Rural water management	M.Tech. Civil Engg.	Dr. Pankaj Sharma	Dr Chad Staddon Dr. Thanti Octovianti
Watershed management			

Thanking you for your kind cooperation and looking forward to collaborative supervision of Ph.D. students from both universities.

With best regards,

Shruti Mathur

Prof.(Dr.) Shruti Mathur

M.Sc.(Microbiology)Ph.D.(Microbiology)Post Doc DBT GoI Fellow MSU Baroda

ISCA Young Scientist awardee 1995,SRFP awardee of IASC-NASI-INSA 2017

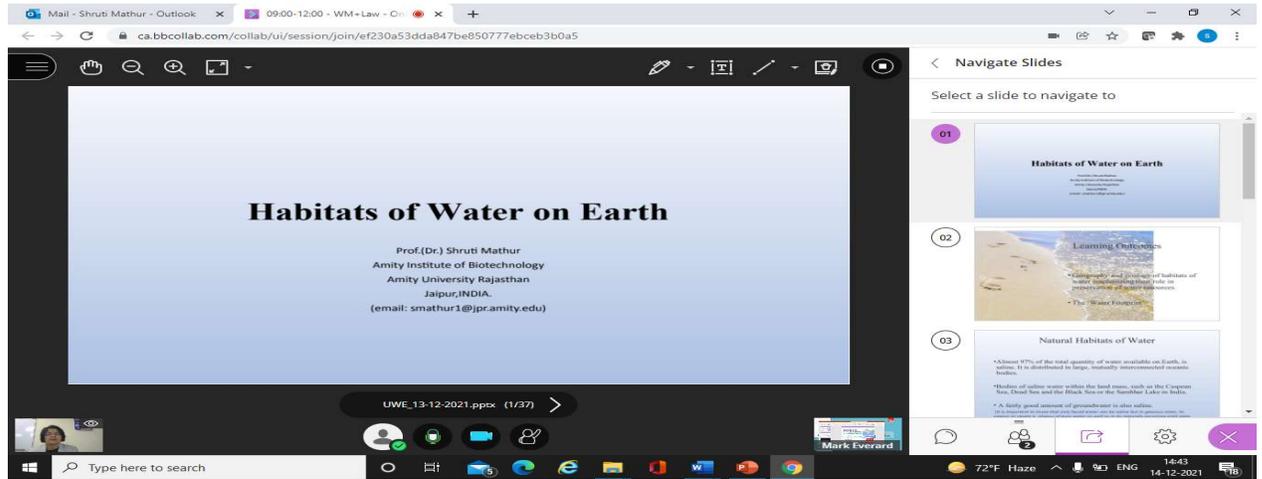
UGC-CSIR(NET) for JRF & Lecturership 1989

Ann 1



An online webinar by an eminent scientist Dr Mark Everard , Associate Professor, University of West England was pursued , agreed upon and finally held on August 11th,2021. The webinar topic was 'Water and Ecosystem Services'





Prof. Shruti Mathur (Bottom left) delivering a webinar on 'Habitats of Water on Earth' for students of U.W.E. on Dec14th,2021





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Ann 4

Amity Law School, Amity School of Communication, Amity Business School, Amity School of Architecture and other departments also addresses the Environmental issues while designing domain doctoral plans and integrate across university.

Link to the website: <https://www.amity.edu/jaipur/pdf/water-conservation-aur.pdf>

