



AMITY UNIVERSITY

RAJASTHAN

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Centre for Ocean Atmospheric Science and Technology

Prof. (Dr.) P.V.S. Raju
Director

Date: 26 July, 2023

Amity Centre for Ocean Atmospheric Science and Technology is focusing on Environmental studies and its Sustainability through research as well as curriculum development for graduate and post graduate programs. The qualified faculty of the Centre teach environmental science for students of multi-disciplinary departments in the University. The faculty of the Centre supervise PhD students on environmental science. The Centre has dedicated environmental monitoring facility such as Aethalometer and Sky radiometer for continuous monitoring of the campus's air quality in real time. Our faculty also conducts consultation projects on community science programs on air quality for school students in Jaipur.

(P.V.S. Raju)





CENTRE FOR OCEAN-ATMOSPHERIC SCIENCE & TECHNOLOGY (COAST)

Director: Prof. P.V.S. Raju

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 under graduate 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.



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Environmental Monitoring Facility



**Sky Radiometer
Aethalometer**



Community Science Programme on Air Quality

ERICSSON **AMITY UNIVERSITY** **AMITY CHAPTER** **earthwatch INDIA**

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, Chandweji

Clean air begins with me

<https://www.earthwatchindia.org/elearning/air-quality-home>

Citizen Science | Experiential Learning





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— R A J A S T H A N —

Dedicated FTE staff of the Research Centre

Prof. (Dr) P.V.S. Raju is currently working as a Professor and Director at Centre for Ocean Atmospheric Science and Technology, Amity University Rajasthan. He has over 25 years of research and teaching experience in the field of Atmospheric Science. He holds a PhD from IIT Delhi, and M.Tech., M.Sc., from Andhra University. He has awarded CSIR-SRF; Junior Associate, ICTP, Italy. His research interest includes Regional Weather & Climate Modeling and Diagnostic Studies; Monsoon Dynamics and its Variability. He has published more than 50 research papers in peer-reviewed journals. (<https://scholar.google.co.in/citations?user=L9WAoaMAAAAJ&hl=en>).

Dr. Shatrughan Singh, an Assistant Professor at the ACOAST, has completed his Ph.D. in Earth and Atmospheric Sciences from Mississippi State University, USA. His Ph.D. research investigated dissolved organic matter (DOM) characteristics in diverse aquatic ecosystems while exploring the role of hydrological and climatological changes. His current research interest focuses on investigating ecohydrological changes, both in terms of quality and quantity, in freshwater ecosystems inevitably pertinent to humans, especially considering climate change scenarios. His future research interests target to offer meaningful solutions in addressing water quality-related issues in freshwater ecosystems while utilizing modern tools and techniques and advanced data analytics. More details on his research activities can be found on his Google profile here (<https://scholar.google.co.in/citations?user=AXoHQAIAAAAJ&hl=en&authuser=2>).



AMITY CENTRE FOR WATER STUDIES AND RESEARCH (ACWSR)

Coordinator: Prof. Shruti Mathur, Amity Institute of Biotechnology, Amity University Rajasthan, Jaipur

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

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 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)**

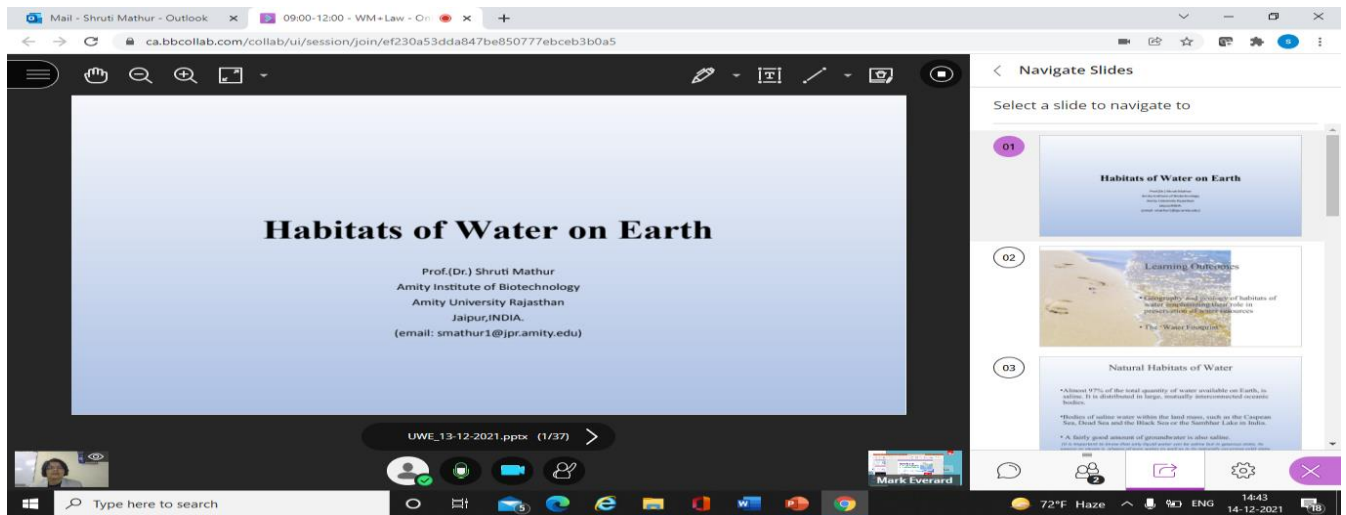


Ann 1



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’

Ann 2



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

Ann 3



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Letter of invitation AIR.pdf - Adobe Acrobat Reader (64-bit)

File Edit View Sign Window Help

Home Tools Mail - Shruti Mathur... Letter of invitation ... x

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7/21/22, 9:23 AM Mail - Shruti Mathur - Outlook

Invitation for radio talk on AIR

AIR JAIPUR <directorairjaipur@gmail.com>
Mon 7/18/2022 4:20 PM
To: Shruti Mathur <smathur1@jpr.amity.edu>
Ma'm,

Pleased to invite you for a radio talk programme to be broadcast on 26/7/22 on 101.2 FM on the topic: "how critical is conservation for resolving water crisis". Time of actual broadcast is 7.00 am. Date of recording at AIR, Jaipur studios is 21/7/22 at 3.00 pm. Pl revert confirmation and ensure sharing above details at the earliest.

Regards

Sunil Ganjoo,
Programme Executive,
All India Radio

Type here to search

1604
21-07-2023

Ann 4

Link to the website:

<https://www.amity.edu/jaipur/pdf/water-conservation-aur.pdf>