



PATRON

Prof Sangita Srivastava
Vice-Chancellor
University of Allahabad



सत्यमेव जयते



K. Banerjee Centre of Atmospheric and Ocean Studies

UNIVERSITY OF ALLAHABAD

OUTREACH ACTIVITY on CLIMATE CHANGE IMPACT ASSESSMENT

One day workshop cum outreach activity on "Climate Change Impact Assessment" will take place on 04 April, 2025 at the K. Banerjee Centre of Atmospheric and Ocean Studies, University of Allahabad. The activity seeks to bring together undergraduate and post graduate students to explore the role of cutting-edge technologies in Atmospheric and Ocean Studies, with a focus on High Performance Computing System, Eddy Flux Tower, Physics of Climate Change, Atomic Absorption Spectrophotometer (AAS), Automatic Weather Station, COSMOS, Big Data Analysis, GIS Remote Sensing, AI/ML techniques and geospatially integrated solutions. The topics covered in the Workshop will cover the aspects of Global Warming, Changing Monsoon and Weather Patterns, Extreme Events, Impact of Climate Change on Human Health and Agriculture, Tropical Storms, and Impact/Risk Assessment using Modelling techniques.

About the University of Allahabad

University of Allahabad has always occupied an esteemed place among the Universities of India for over a century. Established on 23rd September 1887, it is the fourth modern University of India after Calcutta, Bombay and Madras University. The University offers diverse programs across various Departments and Centres, including the Faculties of Science, Arts, Law, and Commerce as well as Institutes of Interdisciplinary Studies and Professional Studies. The University emphasizes industry collaboration, innovative curricula, and research in Atmosphere and Ocean Science and others. With an eco-friendly campus, University prepares students for leadership in the sectors and beyond through excellence in education and research.

About the K. Banerjee Centre of Atmospheric and Ocean Studies

The research in the field of Climate Dynamics has been started in the University of Allahabad with the establishment of K. Banerjee Centre of Atmospheric and Ocean Studies (KBCAOS) in the year 2000 with the financial support from National Centre of Atmospheric and Ocean Research (NCAOR), Goa (MoES) and Indian Space Research Organization (ISRO). The KBCAOS has multi-disciplinary and multi-institutional character. This has made it a national center working in close collaboration with other national/international institutions involved in Ocean and Atmosphere modelling research. The Department of Science and Technology (DST) has recognized KBCOAS under the DST-FIST and Centre of Excellence in Climate Change schemes. The Centre successfully runs 4-Semester M. Tech. degree programme in Earth System Sciences. Besides this, the Centre conducts Doctor of Philosophy (PhD) degree programme in Atmospheric and Ocean Sciences. The students of the Centre are working in leading Universities, Institutes, National Laboratories, Private companies in various leading roles. The state-of-the art computing facility (with high-performance servers/workstations) is available in the Centres to perform Atmospheric and Ocean Modelling. The Faculty of the KBCAOS are well exposed and trained. The KBCAOS has active research collaboration with leading national/international institutions like, International Centre for Theoretical Physics (Italy); Centre for Ocean-Land-Atmosphere Studies (COLA); USA, Lamont Doherty Earth Observatory, Columbia University, USA; John Hopkins University, USA; IITM Pune; NCMRWF Noida and IMD Delhi. The Centre plays an active role in bringing Govt. funded projects and participating in national missions of Govt. of India. It also helps Govt. agencies in fulfilling the objectives of sustainable development goals. The courses of the Centre are designed in such a way that they not only inculcate a rigorous training and research atmosphere in the minds of students, but also make them globally employable.



Prof Avinash C Pandey

(On Lien)

Specialization: Climate Change, Monsoon Dynamics, Modelling, Nano Technology



Prof Suneet Dwivedi

PI DST Centre of Excellence

Specialization: Climate Change, Non Linear Dynamics, Data Assimilation, Atmospheric and Ocean Modelling



Prof Shailendra Rai

(Coordinator)

Specialization: Climate Change and Human Health, Monsoon Predictability, Atmospheric and Ocean Modelling



Dr. Vivek Kumar Pandey

Associate Professor

Specialization: Ocean Modelling, Ocean Bio-Geochemistry



Dr. Sudhir Kumar Singh

Associate Professor

Specialization: Remote sensing and GIS, Hydrological Modelling

OUTREACH ACTIVITY *on* CLIMATE CHANGE IMPACT ASSESSMENT

WHO CAN ATTEND

- Activity is open to the **Undergraduate (B Tech. of Any Branch only)** and **Post Graduate Students of Science/Engineering background** of Universities and Colleges.

IMPORTANT INFORMATIONS & HOW TO APPLY

Online Registration Opens :	March 26, 2025
Deadline for Registration:	April 03, 2025
Acceptance Notification :	April 03, 2025
Seats :	60 Only
Fee :	Free
Mode of Activity :	In-Person Only
Registration Link :	https://docs.google.com/forms/d/1DiHQ4_6rjjLM-65rRZzxGMg5q8mXbiVxaAGkgWqNpHw/edit



Activity Objectives

- Educate participants on the core principles and practices in Atmospheric and Ocean Sciences
- Demonstrate how instruments can be used to collect and analyse data
- Expose participants to use geospatial technologies
- Encourage to study in the field of Atmospheric and Ocean Sciences
- Exposure of hands-on training

Activity Outcomes

- Participants will gain an understanding of the principles and practices of applied in field
- Participants will develop skills in handling the instruments
- Participants will learn how to effectively use GIS and RS technologies
- Participants will enhance their ability to use
- Participants will gain hands on experience and practical skills

Admission Process in the M Tech programme of the Centre (for interested candidates)

- Candidates need to apply ONLINE only for PGAT Entrance Test of University of Allahabad.
- Candidates who are interested in seeking Admission in MTech Earth System Science should either have BTech in (Any Discipline) or Masters in Science in related disciplines.

Various Job Opportunities

- Career in research, consulting, environmental management, and govt./non-govt. agencies (MoES, DST, UGC, DBT, MoEFCC and other national/international laboratories of repute), focusing on the areas of climate science, environmental monitoring, and resource management.
- Private Sector jobs in the fields of Weather Forecasting, Agriculture Sector, Disaster and Risk Assessment, Media, and IT Industries.