

Admission to

M.Sc. and Ph.D. Programme in Atmospheric Science

for the year 2018-2019

Department of Atmospheric Science
School of Earth Sciences
Central University of Rajasthan
Bandarsindri, Kishangarh - 305 817
Distt - Ajmer, Rajasthan (INDIA)



Central University of Rajasthan



M.Sc. Atmospheric Science (2 Year)

The department of Atmospheric Science under the school of Earth Sciences at Central University of Rajasthan is focusing on interdisciplinary areas. The objective of this new programme is to promote interdisciplinary research in land-air-sea interaction, numerical modeling of atmosphere and ocean, monsoon studies, Extreme weather events, air pollution, and climate change to understand its physical and social consequences. This new postgraduate program will provide exposure to the students to a wide array of monsoon and associated phenomena, global and regional climate modeling, ocean state and storm surge forecasting, numerical modeling of ocean circulation, air pollution modeling, air pollution and health

Eligibility Criteria

Bachelor's degree from a recognized University in any discipline of Science (with Physics as one of the core subject)/Engineering with minimum of 50% marks or equivalent grade in aggregate for general category and 45% or equivalent grade for SC/ST/OBC/PWD candidates.

Ph.D. Atmospheric Science

Admission Through Central University Combined Entrance Test (CUCET). You can visit for details of eligibility on the website: <https://www.cucetexam.in/>



The Central University of Rajasthan (CURaj) was established by an Act of Parliament as a Central University. Uniquely, all the programs are so designed to develop CURaj as a centre for generation of knowledge, enhancement of employability and most importantly as a breeding ground of ideas and techniques for sustainable development. The University is ranked 34 in National Institutional Ranking Framework (NIRF) in the year 2016, the best among the universities established since 2009. As per the recent NAAC accreditation in 2016, the University is rated as 'A' category Universities in the country. The University has recruited faculty from 20 states of the country, many being from reputed institutions with postdoctoral experience from abroad. The University operates from its permanent campus of 520 (approx.) acres and it has adequate infrastructure housing nearly 2000 students in the Campus. It has state-of-art equipment and well-stocked library subscribing all digital resources.



Research Facilities

The computing laboratories at the department are equipped with state-of-the-art-desktop workstations for data analysis and visualization. A separate computer lab with 34 Computers, Wi-Fi connectivity is also available for the students. We are in the process of establishing a HPC Lab and a Field Observatory. Software: GrAds, NCL, ArcGIS, ENVI, ERDAS IMAGINE, MODFLOW, Aquifertest, MIKE 11, MIKE SHE, R, CDO, QGIS

Models:WRF,RegCM,MPAS

Possible Collaborators

National Physical Laboratory (NPL), New Delhi
National Atmospheric Research Laboratory (NARL), Tirupati,
India Meteorological Department (IMD) New Delhi,
National Centre for Medium Range Forecasting (NCMRWF)
Indian Institute of Tropical Meteorology, Pune
Space Application Centre (SAC), Ahmedabad
IIT Delhi, IIT Bhubaneswar

Ambient Air Quality Monitoring Station

School of Earth Sciences has an Ambient Air Quality Monitoring Station (AAQMS) for real-time data monitoring of common air pollutants including Ozone (O₃), Nitrogen Oxides (NO₂, NO, NO_x), Carbon monoxide (CO), Sulphur dioxide (SO₂), Methane (CH₄) and Non-methane hydrocarbons (NMHC), and an AWS for various meteorological parameters i.e., Rainfall, Temperature, Radiation, Humidity, pressure, Wind speed and direction.



COURSES STRUCTURE

Semester - I

- Fundamentals of Atmosphere, Land and Ocean
- Physics of the Atmosphere
- Dynamic Meteorology
- Weather Analysis and Forecasting
- Mathematics and Statistical Methods for Earth Sciences
- Science of Climate and Climate Change

Semester - III

- Climate change Impact, Adaptation and Mitigation
- Mesoscale Modelling and extreme weather events
- Arid Environment, Meteorology and Desertification
- Environmental Pollution and Management
- Numerical Weather Prediction and Data Assimilation
- Aerosols and Atmospheric Chemistry
- Research Paper Review and Seminar

Semester - IV

- Project



Semester - II

- Modelling of Atmospheric Processes
- Satellite Meteorology and Oceanography
- Statistical Analysis and Computer Programming
- Observational Methods and Instrumentation
- Simulation and Visualization
- Remote Sensing and GIS



Contact us:

Coordinator

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ADVISORS



Prof. Arun K. Pujari
(Vice-Chancellor, CURAJ)



Prof. U. C. Mohanty
(IIT Bhubaneswar)



Prof. S. K. Dash
(IIT Delhi)



AVM (Retd.) Prof. Ajit Tyagi
(Former DG, IMD)



Dr. L.S. Rathore
(Former DG, IMD)

FACULTY



Prof. Someshwar Das
Professor
Dept. of Atmospheric Science
CURAJ



Dr. Subrat Kumar Panda
Assistant Professor
Dept. of Atmospheric Science
CURAJ



Dr. L. K. Sharma
Associate Professor
Dept. of Env. Science
CURAJ



Dr. Devesh Sharma
Assistant Professor
Dept. of Env. Science
CURAJ



Dr. Ritu Singh
Assistant Professor
Dept. of Env. Science
CURAJ



Dr. Alok Kumar
Assistant Professor
Dept. of Env. Science
CURAJ

Faculties of the Department of Mathematics

Faculties of the Department of Computer Science

Faculties of the Department of Statistics