



CENTRAL UNIVERSITY OF JHARKHAND

झारखण्ड केंद्रीय विश्वविद्यालय

NAAC accredited A+ University

homepage: <http://www.cuj.ac.in>



NATIONAL CONFERENCE

Climate Change and Water Security: Mitigation Strategies and AI Solutions for Developing Countries

05-06 Feb 2026



**Organized by
Department of Civil Engineering
Central University of Jharkhand
Ranchi- 835222**

About the conference

Water is the keystone of life, yet it is increasingly becoming one of the most vulnerable resources in the face of climate change. Rising global temperatures are disrupting rainfall patterns, intensifying droughts, accelerating glacier melt, and increasing the frequency of extreme weather events. These changes are not just environmental—they are deeply social, economic, and political.

In India, where agriculture is heavily dependent on monsoons and groundwater, the consequences are already visible. Erratic rainfall, shrinking rivers, and declining groundwater levels are threatening food security, livelihoods, and public health. Urban centers are facing water stress, while rural communities struggle with access and quality. The urgency to address these challenges has never been greater. This conference is designed to be a catalyst for action, bringing together diverse stakeholders to explore the intersection of climate change and water availability.

Themes of the Technical Sessions :

Session I: Climate change Impacts

- Impact of climate variability on rainfall and river flows
- Glacial retreat and its implications for downstream water supply
- Hydrological modeling for climate forecasting

Session II: Technology and Innovation

- Smart irrigation and water-saving technologies
- Remote sensing and GIS in water resource planning
- Innovations in wastewater treatment and reuse
- The role of AI, IoT, and satellite data in water management

Session III: Community and Ecosystem Resilience

- Traditional water management practices
- Community-led adaptation strategies
- Ecosystem-based approaches to water security

Note: Theme wise best paper will be awarded

Organizing Committee



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Hon'ble Vice-Chancellor,
Central University of Jharkhand



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REGISTRATION AND IMPORTANT UPDATES

Important Dates

Abstract submission: 25th January, 2026

Abstract acceptance: 27nd January, 2026

Full length paper submission: 02nd February, 2026

Note: Abstract submission and Registration link:

<https://forms.gle/beL8ASepDvxDt8Vj9>

Registration fees

Conference is on HYBRID Mode
(Virtual presentation + On Site Presentation)

On-Site Presentation	Student/ Research Scholar (Institutional or Other Institution)/ Academician/ Govt. Employee/NGOs and environmental activists:	Rs.500
Virtual Presentation	All: HYBRID Mode	Rs. 500

(For any queries, further contact)

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