

IIT Indore conducts workshop on hydrometeorological data

Our Staff Reporter

INDORE

Indian Institute of Technology Indore conducted a one-day workshop titled "Hydrometeorological Data with Standards" to address climate change on December 11.

The event was organised by the Department of Civil Engineering, IIT Indore in collaboration with the Bureau of Indian Standards (BIS), the Centre for Narmada Basin Management Studies and The National Academy of Sciences, India (NASI), Bhopal Chapter.

The workshop focused on fostering collaboration to improve data accuracy, enhance

climate change adaptation strategies and integrate data standards into hydrometeorological models for informed decision-making.

Participants emphasised the importance of standardising data processes to boost accuracy, managing hydrometeorological data through consistent standards and adopting uniform methods for imputing and analysing data across spatial and temporal dimensions.

Prof Manish Kumar Goyal, chair professor of BIS and professor, Department of Civil Engineering, IIT Indore emphasised the critical role of hydrometeorological data

standards, metadata, imputing methodologies, data mechanisms, BIS hydrometeorology guidelines and key meteorological parameters, highlighting the importance of standardised approaches to advancing research and improving hydrometeorological practices.

The workshop included sessions on BIS guidelines and methodologies for meteorological data, techniques for imputing hydrometeorological data, data processing, quality assessment, handling missing data and the grading and categorisation of datasets.

Besides, the discussions covered Narmada River Basin,

emphasising its importance for agriculture and urbanisation and hydrometeorological data modelling in mountainous regions. These sessions explored the fundamentals of the hydrological cycle, key processes and various precipitation types critical to river basin protection, adding depth to the workshop's discussions.

The workshop attracted around 60 participants, including students, research scholars, and faculty members and brought together experts, researchers and policymakers to discuss the crucial role of standards in hydrometeorological data analysis and imputation.