



CLIMATE CHANGE AND COMPOUND HYDROMETEOROLOGICAL EVENTS: INSIGHTS FROM DATA AND MODELING

(Course Code: 2700193)



MANIT Bhopal

(Host Institute)

Jointly organized by

MANIT Bhopal & IISER Bhopal



March 31-April 4, 2025

Foreign Faculty



Prof. Lixin Wang works as Professor at School of Science Indianapolis

University, USA. His research group focuses on ecohydrology, which explores the complex interactions and feedbacks between water and vegetation in various natural and agricultural systems. Prof Wang is particularly interested in the complexity of water-vegetation interactions in water-stressed environments, and the responses of these ecosystems to future climate/land use change scenarios. His team has used a variety of ecohydrological processes across a range of natural systems, and have used stable isotopes, field observations, remote sensing, meta-analysis, and process-based modeling to disentangle complex interactions between water, ecosystems, and the environment.

Key Topics

- Extreme climatic events
- Compound and cascading climatic events
- Flash Droughts and flood risk mapping
- Catastrophe risk management
- Tools and techniques for measuring climate variables
- Adaptation and mitigation

Hands on Training

- Quantification and Analysis of Compound Events
- Statistical bias corrections & downscaling of data from CMP6 models
- Modelling of future projections of compound extremes
- Copula-based modelling
- Hydrological Modeling

Host Faculty



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Registration

Students	INR 1000
Faculty (Academic Institution)	INR 2000
Participants from Industry/Research Organization	INR 5000
Students (abroad)	US \$100

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