



High-End Workshop (KARYASHALA)

on

Geospatial Technology in Groundwater Resources Management

Sponsored by

Science and Engineering Research Board (SERB)

Government of India

12-18 March, 2024



Organized by
Department of Geology
Central University of South Bihar, Gaya

Registration: Applicant get **Free** registration by scanning the given QR or by link.

<https://forms.gle/pdEsWLGCiQcUasfb7>



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Last Date of applying **March 5 2024.**

Selected Candidate will be informed through email by **March 7, 2024.**



About Workshop

KARYASHALA is an effort to improve research productivity of promising PG and PhD students from universities and colleges through High-End Workshops on specific themes. This workshop aims to provide opportunities to acquire specialized research skills in the field of Groundwater Resources Assessment and Management and Geospatial Technology. Additionally, the scheme facilitates skill development in areas and themes essential for effective research work.

The workshop will cover the fundamentals of groundwater resource and recent challenges in the field of water resources and river basin management. The Geospatial Technology includes the basics of Remote Sensing, GIS and its applications in water resources such as groundwater recharge and potential modelling, DEM analysis for river basin analysis and satellite data classification and interpretation. This workshop includes the lectures by the eminent experts and hands-on experience on GIS and Image Processing Softwares.

Highlights of the Programme

- Basic and advance Remote Sensing and their applications
- Geospatial technology in Groundwater Recharge and Potential Modelling.
- Hydrological Model application in sustainable Water Resource Management.
- Groundwater quality assessment and management.
- Geophysical Methods in Groundwater Exploration
- Application of Machine Learning Algorithms in Hydrology.
- Environmental Isotopes as Tools in Sustainable Groundwater Management.
- Hands-on session on GIS and Image Processing Software

Key Speakers

Academicians from premier institutions like Central Universities, IIT's, Scientists from research institute and other premier research labs, and industries having expertise and experience in relevant domain knowledge.

Eligibility and Selection

- Applicants from any discipline of Science (Geology/Earth Sciences/ Geophysics, Hydrology, Environmental Sciences and Geography) currently pursuing **Msc. (4th Sem.) / PhD programs** are eligible for this program.
- Selection will be based on the recommendations of the duly constituted committee.
- Preference will be given to the candidate working in the area of Water Resources and Remote Sensing.
- Only 25 candidates will be selected to participate in the workshop.
- NOC from the Head of the Department/ Institution in the prescribed format should be submitted.
- Certificate will be issued after the successful completion of the workshop.

Instructions

- Accommodation will be provided in the Institute hostel and guest house based on the availability of rooms.
- The participating candidates are eligible for TA reimbursement as per SERB & CUSB guidelines.



About the University

The Central University of South Bihar (CUSB), NAAC A++ Grade (A Central University Established by Act of Parliament) is one of the research intensive University was established by Central Universities Act 2009 (Section 25 of 2009) in a permanent campus on a 300-acre of land at Panchanpur, situated about 15 km away from Gaya town to achieve the target of academic excellence in Higher Education with the aid of 'Collective Reasoning & Wisdom'. In the light of National Educational Policy 2020, it further aspires to become Multidisciplinary Education and Research University (MERU) to fulfil the need and aspirations of society and nation as well as the target of SDGs Goals. <https://www.cusb.ac.in/>



About Department of Geology

The Department of Geology under the School of Earth, Environment and Biological Sciences is presently offering M.Sc. and Ph.D. Programs in Geology. The department of Geology have well equipped Remote Sensing and GIS laboratory with good number of Licensed ARC GIS , ERDAS Imagine, Geomedia Software with Smart class rooms. Department also have digital total station for field data collection and survey. Please visit <https://www.cusb.ac.in/departement-of-geology/> to know about the department.



Organizing Committee

Chief Patron

Prof. Kameshwar Nath Singh
Vice Chancellor,
Central University of South Bihar, Gaya

Patron

Prof. Pradhan Parth Sarthi
Dean, School of Earth, Biological and Environmental
Sciences.
Central University of South Bihar, Gaya

Chairman

Prof. Durg Vijai Singh
Director, Research and Development

Event Organizer & Convener

Prof . Prafull Kumar Singh
Head, Department of Geology

Organizing Committee

Dr. K. Milankumar Sharma (Associate Professor)
Dr. Vikal Kumar Singh (Assistant Professor)
Dr. Longjam Kabita Chanu (Assistant Professor)
Dr. Priti Rai (Assistant Professor)

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