



## Platinum Jubilee Celebration



### Workshop/Short-Term Training On Application of Remote Sensing and GIS in Research (ARSGISR-2024) 17<sup>th</sup> -21<sup>th</sup> June 2024

*Organized by*



**Department of Civil Engineering  
BIT Sindri, Dhanbad, Jharkhand, India**

PO: Sindri Institute, Jharkhand, India – 828123

Website: [www.bitsindri.ac.in](http://www.bitsindri.ac.in)

**Venue: C-51, Department of  
Civil Engineering**

## About BIT Sindri

The primary aim of the institute is to cater the requirements of the country for technological manpower for development and research programs comparable to the best in the world. The college offers B.Tech courses in 10 disciplines of engineering, namely Civil, Chemical, Computer Science, Electrical, Electronics and Communications, Information Technology, Mechanical, Metallurgy, Mining, and Production. All the courses are approved by the All-India Council of Technical Education, New Delhi (AICTE). Also, most undergraduate programs are accredited by the National Board of Accreditation (NBA), New Delhi.

## About the Department

The Department of Civil Engineering was started in the year 1957. The department offers UG & PG courses with Soil Mechanics & Foundation Engineering and Structural Engineering as specializations. The department also offers adequate facilities for R&D works and thus provides a vital impetus in growth of the Jharkhand state. Both undergraduate and postgraduate students are trained in computer applications of Civil Engineering and the latest software. The students of the department actively pursue R&D under the guidance of faculty members funded by Government Bodies and



## Vision of the Department

To facilitate the continuous enhancement of technical expertise to meet innovative challenge in research and infrastructure development.

## Mission of the Department

To produce competent Civil Engineers by

- inculcating the advance knowledge and modern technology.
- promoting quality educations, research, and consultancy for industrial and societal needs.
- developing leadership qualities by providing human values, ethical and moral responsibility.
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## Who should attend?

Students of all levels of technical institution (Diploma/UG/PG/Ph.D) and Faculty members from academic institutions of various disciplines. Executive Engineers and Scientist working in different fields of Earth sciences such as Geology, Climatology, Environmental studies, Soil sciences, Oceanography etc.

## Course outline:-

The following topics will be covered in this workshop:

- Practical and executable solutions to the challenges of RS and GIS
- Application of Geoinformatics techniques using GIS, GPS in various activities including resources evaluation, environmental monitoring, land use/land cover mapping etc.
- Practical applications of remote sensing and GIS technologies to identify, monitor, analyze, and evaluate natural resources.
- The use of HEC-HMS, QGIS, HEC-RAS, ERDAS Imagine and ENVI will also be discussed in the practical sessions apart from various in-depth theory sessions.

## Objective:-

The main objective of the workshop is as follows:

- To expertise the participants in developing practical and executable solutions to the challenges of growing field of Remote Sensing and GIS.
- To inculcate the participants in identifying, analyzing and solving geospatial problems.
- To impart the students with strong base of knowledge that makes them suitable for industries as well as for teaching and research.

## About the Workshop

The aim of the Workshop “ARSGISR-2024” is to bring the researchers, academicians, and field practitioners at a common platform to share their experiences and knowledge to strengthen the technical skills and scientific base of young researchers. The integrated use of Remote Sensing and GIS have transformed the world in data collection techniques. Therefore, the use of these modern tools and techniques is the urgent need of present time.

Jharkhand is blessed with huge natural resources. RS and GIS tools can be effectively used for natural resource management (eg. land use/ land cover mapping, disaster management, climate monitoring, urban planning, weather forecasting, forest mapping, water management, mining, drought forecasting and agriculture sector etc.). Extensive amount of data can be collected using Remote sensing technology and GIS and it may also be used to utilize this data to its fullest potential.

## Registration Details:

### Registration Link:

<https://forms.gle/brFVMLReXjHM9Mk19>

**Registration Deadline:** 15/06/2024

### Registration Fee, including attendance, lunch and tea, per participants:

Faculty member/Industry person: INR 1000/-

Student (PhD, MTech, BTech): INR 500/-

Mode of payment: Online/RTGS/NIFT/QR Code

Name of account: RISCE24

Account no.: 42184884713

Name of Bank: SBI

Branch: BIT Sindri

IFSC code: SBIN0011812



## Chief Patron

*Prof. (Dr.) D.K. Singh (VC, JUT Ranchi)*

## Patron

*Prof. (Dr.) Pankaj Rai (Director, BIT Sindri, Dhanbad, Jharkhand.)*

## Convener

*Dr. Jitu Kujur (HOD, Civil Engineering Department, BIT Sindri, Dhanbad)*

## Coordinators

*Dr. Komal Kumari (Assistant Prof., BIT Sindri)*

*Mr. N. K. Das (Assistant Prof., BIT Sindri)*

## Organizing Committee

- **Prof. (Dr.) U.K. Singh** (Professor., BIT Sindri)
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