



ACCELERATE
विद्यया



SERB High-End Workshop (KARYASHALA)

CONCEPTS AND APPLICATIONS OF GIS, REMOTE SENSING AND GLOBAL NAVIGATION SATELLITE SYSTEMS

July 10–16, 2023

NATIONAL INSTITUTE OF TECHNOLOGY JAMSHEDPUR

Resource Persons

Eminent experts from premier institutes (IIT, NIT, Govt. University) and Organizations (DRDO, ISRO).

Organizing Committee

Patron

Prof. Goutam Sutradhar
Director, NIT Jamshedpur

Joint Conveners

Dr. Amit Prakash
Associate Professor, ECE Dept.

Dr. Ch. Madhusudana Rao
Associate Professor, CE Dept.

Coordinator

Dr. Surajit Kundu
Assistant Professor, ECE Dept.

Co-Coordinator

Dr. Prashant Kumar
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Venue

NIT Jamshedpur
Adityapur, Jamshedpur,
Jharkhand-83104
Web: <https://www.nitjsr.ac.in/>

About The Workshop

High-End Workshop 'KARYASHALA' is an effort by SERB, Govt. of India via Accelerate Vigyan Scheme for skill development of PG and PhD students primarily from universities, colleges, private academic institutions, and newly established institutes to pursue quality research work.

This workshop aims to cover foundational information, current applications, and potential future developments in the fields of geographic information systems, remote sensing, and global positioning systems (GNSS). The technical sessions will give equal weightage to theoretical talks and experiential learning, case studies, and hands-on training.

Course Contents

Fundamentals of GIS, Basic Principles of Remote Sensing, Active and Passive Remote Sensors, Remote Sensing Applications, Electronics Navigation Systems, Terrestrial Navigation System, Satellite Based Navigation System, Indian Regional Navigation Satellite Systems, GNSS Positioning Techniques, GNSS Atmospheric Research Applications, GNSS Applications in Defence Sector, Electro-Optical Remote Sensing – Applications in Defence Sector, GNSS Time Applications, Design challenges of antennas and transceiver components of Satellite System.

Participants: Eligibility Criteria

- Regular PG level students (Masters/ PhD Scholars) of relevant specialization are eligible.
- The applicants must upload the institute's identity card, detailed resume, all marksheets (from 10th class to the highest degree obtained), and a No Objection Certificate in Institute's Letter Head from Supervisor/Head of the Department/Head of the Institute for allowing the student to attend the workshop, if selected.
- Seats are limited. Candidates will be selected based on the selection criteria.

Application Procedure

- Application/ registration is free of cost. Accommodation, Food, stationary items, consumables will be provided to the selected candidates for the workshop period only. Selected candidates will be eligible for Travel Allowance (TA) reimbursement for their journey to the host institute from their present institute, both ways, as per the Host Institute's norms.
- Certificate of successful completion of workshop shall be issued to the eligible participants.
- Application Link: <https://forms.gle/NPStxebCiom1dNCX6>

Important Dates

Application deadline: **June 15, 2023**

Notification to the selected candidates: **before June 17, 2023**

Workshop date: **July 10–16, 2023**



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