

**National Geospatial Programme,  
Department of Science and Technology  
(DST),  
Govt. of India**

The Department of Science and Technology (DST) has identified Geodesy as a pivotal domain crucial for national development. As a result, DST has launched the National Centre for Geodesy (NCG) at IIT Kanpur with the objective of cultivating highly skilled technical professionals and advancing geodetic infrastructure. NCG's mission is to foster a proficient workforce and provide cutting-edge facilities within the local context. Functioning as the primary hub at IIT Kanpur, NCG extends its reach by establishing Regional Centres of Geodesy (RCGs) at other institutes. The Institute of Remote Sensing (IRS) serves as an RCG, actively engaging in the organization of training and research programs in Geodesy to cater to the evolving infrastructure needs essential for nation-building.



**Chief Patron**

Dr. R. Velraj, Vice-Chancellor, Anna University,  
Chennai

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Dr. K. Eswarakumar, Dean, CEG  
and

Dr. K. P. Jaya, HoD, Civil Engineering

**Course coordinators**

Dr. R. Vidhya, Professor & Director, IRS  
and

Dr. K. Srinivasa Raju, Professor, IRS

**Website**

<https://irs.annauniv.edu/irs/>

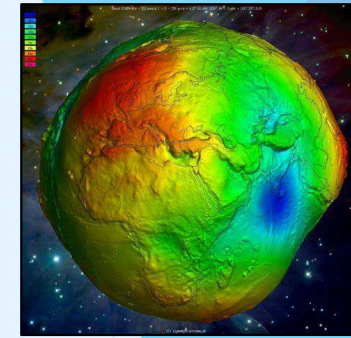
**Registration Link**

<https://forms.gle/3jJUXxoEiN5kjWjb9>

Or Scan the below QR code to register



Last date of registration: 9<sup>th</sup> August 2024



**Short-Term Training Program  
on  
Exploration of Geodetic Measurement  
Techniques**

Sponsored by



**National Geospatial Programme (NGP),  
Department of Science & Technology,  
Govt. of India**

**19<sup>th</sup> to 24<sup>th</sup> August 2024**

Organized by



**Regional Centre for Geodesy (RCG),  
Institute of Remote Sensing,  
Anna University, Chennai,  
Tamil Nadu**

## About Anna University

Established in 1794 as a School of Survey, College of Engineering Guindy (CEG) at present has 17 Departments and 17 Research Centres where research programs are offered. Throughout its history, CEG has championed innovation, evident in achievements like the launch of the microsatellite ANUSAT, showcasing its commitment to cutting-edge research and technological advancement.

By ensuring close ties with industry, excellent research practices, and extra-curricular options, the institution advances the progression of the student's quest for knowledge. The faculty along with the excellent student population makes the campus one of the best places to study in the nation. Anna University offers 29 UG and 90 PG Programmes in various disciplines in the University Departments and 41 UG and 57 PG programmes in Affiliated Institutions.

## About IRS

The Institute of Remote Sensing (IRS) was established in 1982 by Anna University with the funds provided by the Government of Tamil Nadu. IRS is also functioning as State Remote Sensing Application Centre for the Government of Tamil Nadu. Over the years, the infrastructural facilities have been gradually built-up using development grants mainly from Ministry of Human Resources Development, University Grants Commission, Federal Republic of Germany, Government of India and Department of Agriculture of Government of Tamil Nadu.

At present, the Institute is rated as one of the best in the country in the areas of Remote Sensing, Geographical Information System and Large-scale Mapping. The Institute functions as an autonomous unit of Anna University, governed by an executive committee headed by the Vice- Chancellor and other members from premier research institutions, Govt. organization and Industries. As an externally assisted project, Federal Republic of Germany has provided assistance worth 7 million DM towards equipment, exchange of staff and for conducting a 4-year engineering Under-Graduate program, B.E. (Geoinformatics). The Institute has various laboratories equipped with sophisticated instruments and machinery. The Royal Norwegian Embassy as a part of Indo Norwegian Institutional Cooperation Programme has supported the institute to a tune of 1.1 crores for selected research projects and infrastructure development.

## Objectives of RCG

- Organizing outreach activities
- Capacity building
- Conducting state-of-the-art R&D activities
- Acting as the Regional Resource Centre for extensive support (laboratory, equipment, training, library, SW, etc.) to students, researchers and state government departments

## About this Program

This six-day program is meticulously crafted to provide a valuable learning opportunity for faculty members & budding researchers aiming to bolster their grasp of the theoretical underpinnings and processing methodologies of Geodesy. Serving as a dynamic platform, the event will facilitate the exchange of insights, needs, and obstacles encountered in applying and advancing Geodesy.

By nurturing a basic understanding of Geodesy among the participants, this training program endeavours to help them realize the effectiveness of using geodetic techniques in climate change, environmental monitoring, geological & geophysical studies, and to bolster forthcoming initiatives in geodetic research & teaching.

## Major Topics of Discussion

- Introduction to Geodesy: Principles & Practices
- Advanced Land Surveying techniques with hands-on training
- Fundamentals of Satellite Geodesy & GNSS positioning
- Techniques and Applications of GNSS and Differential Positioning
- Demo & hands-on training on Post-processing of Static GNSS Survey data using Trimble Business Centre (TBC) software.
- Physical Geodesy: Reference Systems, Frames, and Modern Applications
- GNSS based CORS network and its establishment
- Demonstration & hands-on training on the usage of GAMIT / GLOBK software for precise processing of IGS network data
- Evolution and fundamentals of Gravity Measurement Techniques in Physical Geodesy
- Methods in Satellite-Based Geodesy with respect to Orbit Determination and Tracking
- Latest Perspectives in Gravimetry and Space Geodetic Data Analysis
- Marine Geoid Mapping and its Applications

## Target Audience

Faculty members or research scholars enrolled under the Department of Civil Engineering at any academic institution.

## Seat Limitation

Seats are limited to **20 (Twenty)** participants. Selection of participants will be based on their work experience and/or present status of their research with a copy of their Ph.D Registration certificate / Research scholar or Faculty member ID card.

## Important Information

Last date of registration : August 9, 2024

Date of notification of selection: August 13, 2024

Mode of Conduct: Offline

No. of Seats: 20

Registration Fee: Nil

