

## Geography Department Event Report

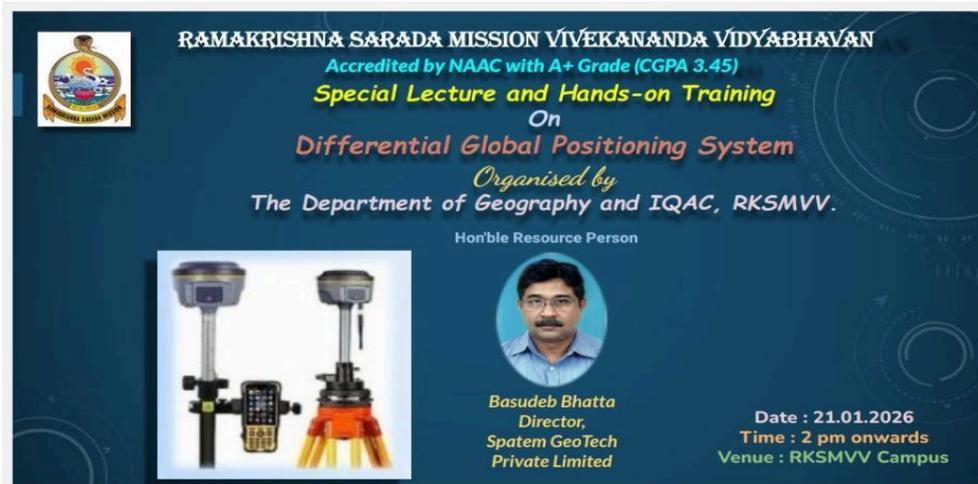
- **Name of Event:** Special Lecture and Hands-on Training
- **Topic :** Differential Global Positioning System
- **Category:** Departmental Academic Activity
- **Organizing Unit:** The Department of Geography and IQAC, RKSMVV
- **Date:** 21.01.2026
- **Time:** 2:00 pm - 5:00pm
- **Venue:** Swamiji Bhaban and entire college field area.
- **Name of Resource Person:** Basudeb Bhatta, Director, Spatem GeoTech Private Limited.
- **Number of Participants:** 53 Geography students of UG course.
- **Brief Description of the Event:**

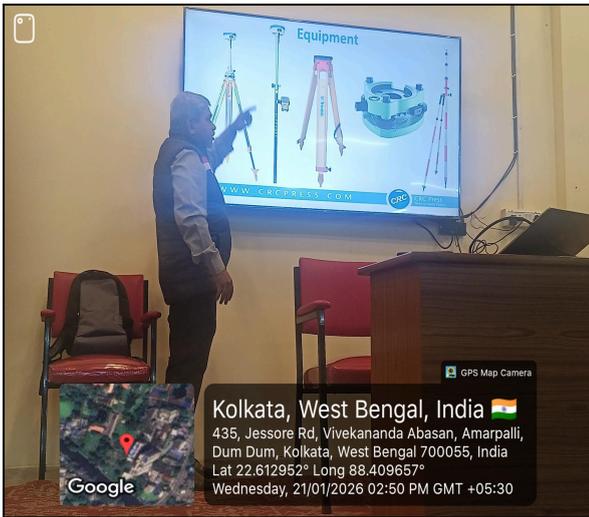
The Special Lecture and Hands-on Training on DGPS was organized to provide students with both conceptual and practical understanding of modern surveying techniques. At the beginning of the session, the resource person explained the concept of machine-based surveying and its growing importance in present-day geographical studies, highlighting the shift from traditional methods to advanced technologies for better accuracy and efficiency.

The session also covered the future prospects of GIS and geospatial technologies. The resource person discussed the increasing demand for GIS professionals in reputed institutions such as Jadavpur University, IITs and IISc Bangalore, along with career opportunities in remote sensing, urban planning, environmental management and disaster studies.

In the later phase, students were introduced to DGPS (Differential Global Positioning System). The working principle, components and applications of the system were explained, followed by a hands-on training session. Students were practically guided in operating the DGPS machine, collecting field data and recording coordinates, which helped them gain confidence in handling modern surveying instruments.

- **Program Outcome:**
  - Students developed a clear conceptual understanding of machine-based surveying techniques.
  - Learners became aware of the future scope of GIS and geospatial technology in higher education and research.
  - Practical exposure to DGPS enhanced students' technical skills and fieldwork efficiency.
  - The program successfully bridged the gap between theoretical knowledge and practical application. Overall, the event motivated students to pursue advanced studies and careers in GIS and modern surveying methods.





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