


## Value Added Course on Applied GPS and Mobile Data Collection Techniques Successfully Conducted at JSS AHER

The Division of Geoinformatics, School of Life Sciences, JSS Academy of Higher Education & Research (JSS AHER), Mysuru, successfully conducted a Value-Added Course (VAC) on “Applied GPS and Mobile Data Collection Techniques” from 18<sup>th</sup> to 23<sup>rd</sup> May 2026. The Five-day programme was designed to provide participants with practical exposure to GPS technology, mobile GIS applications, digital field surveys, and spatial data management workflows.

**DIVISION OF GEOINFORMATICS**  
SCHOOL OF LIFE SCIENCES, MYSURU  
JSS ACADEMY OF HIGHER EDUCATION AND RESEARCH  
(DEEMED TO BE A UNIVERSITY), ACCREDITED 'A++' GRADE BY NAAC



JSS  
ACADEMY OF HIGHER EDUCATION & RESEARCH  
MYSURU

### Value-added course on Applied GPS and Mobile Data Collection Techniques


**Course Description**  
Course Code: VLSMGE0-02  
Credits: 02  
Duration: 30 hrs  
Total Marks: 50  
Evaluation: Theory Examination (MCQ) - 25 Marks  
Practical Examination - 25 Marks

**Eligibility**  
Students pursuing UG/PG and Research Scholars of JSS AHER.  
Max. Intake - 40

**Certification Criteria**  
Attendance: Minimum 80% mandatory  
Assessment: Minimum 50% marks required  
Credits: 2 extra credits will be awarded and included in the semester marks sheet.

**May**  
18<sup>th</sup> to 23<sup>rd</sup>, 2026.  
Venue: Geoinformatics Lab  
Second floor,  
JSS Dental College

SCAN TO REGISTER



REGISTER HERE : <https://forms.gle/W9LpxZEkraBr8vycE6>

**Course Objectives**

- Introduce the fundamentals and working principles of GPS and mobile-based data collection tools.
- Train students to design and conduct field surveys using GPS devices and ODK mobile applications.
- Develop skills in collecting, managing, and exporting spatial data for GIS integration.












**Course Outcomes**  
On successful completion of the course, learners will be able to:

- Explain the principles and functioning of GPS.
- Collect and record field data using GPS and ODK-based mobile applications.
- Conduct geo-tagging and location-based surveys for environmental and health studies.
- Export, manage, and visualize field data for GIS integration.

**Resource Persons /Trainers**

- Dr. Sushant Sawant – Programme Coordinator, M.Sc. Geoinformatics.
- Dr. Manjunatha M. C - Assistant Professor
- Mr. Mahesha D B - Assistant Professor

**VAC Coordinator**  
Mr. Mahesha D B  
Assistant Professor,  
Division of Geoinformatics  
Contact No: 8310579415

										
A++	21 <sup>st</sup>	50 <sup>th</sup> in INDIA	37 <sup>th</sup> in INDIA	91 <sup>st</sup> in INDIA	551-600	801-1000	601-800	351-400	251-300	27 <sup>th</sup> in INDIA
nirf 2025   JSS College of Pharmacy, Ooty - 4 <sup>th</sup> • JSS College of Pharmacy, Mysuru - 7 <sup>th</sup> • JSS Dental College & Hospital - 10 <sup>th</sup> • JSS Medical College - 37 <sup>th</sup>										

*Figure 1. Programme brochure of the Value Added Course on Applied GPS and Mobile Data Collection Techniques organized by the Division of Geoinformatics, School of Life Sciences, JSS AHER.*

The course was coordinated by Mr. Mahesha D.B., Assistant Professor, Division of Geoinformatics, with active support from Dr. Sushant A. Sawant, Associate Professor and Division Coordinator, and Dr. M.C. Manjunatha, Assistant Professor. Students from various disciplines participated in the programme and gained hands-on experience in geospatial technologies.

The course covered key topics including Global Navigation Satellite Systems (GNSS), GPS principles, coordinate systems, coordinate reference systems (CRS), GPS accuracy assessment, georeferencing, digitization, satellite imagery interpretation, Google Earth Pro applications, mobile GIS, KoboToolbox-based survey design, field data collection, and spatial data integration using QGIS.

A major highlight of the programme was the emphasis on practical learning. Participants worked extensively with QGIS software, imported and visualized GPS datasets, created spatial layers, performed georeferencing and digitization exercises, designed mobile survey forms using KoboToolbox, and conducted field-based data collection activities. Students also learned thematic mapping, hotspot visualization, buffer analysis, and professional map layout preparation.

The course concluded with a theory examination and a practical assessment carrying 25 marks each. Students were evaluated on both conceptual understanding and practical competencies related to GPS operations, mobile data collection, GIS integration, and spatial visualization. The assessment results demonstrated strong performance across the cohort, reflecting the effectiveness of the practical-oriented teaching methodology adopted during the programme.

Feedback collected from participants indicated a very high level of satisfaction. The course received an overall mean rating of 4.59 out of 5, with students particularly appreciating the hands-on training, field exercises, GPS data collection activities, and KoboToolbox-based mobile survey workflows. More than 90% of participants recommended the course, highlighting its relevance for academic, research, and professional applications.

By the end of the programme, participants were able to understand the principles of GPS and GNSS technologies, design mobile-based survey forms, collect and manage geospatial data, integrate field-collected information into GIS software, and generate meaningful spatial outputs for analysis and decision-making. The course successfully strengthened students' practical competencies in modern geospatial technologies and contributed significantly to skill development, interdisciplinary learning, and digital field survey capabilities.

The Division of Geoinformatics remains committed to offering similar skill-oriented programmes that promote experiential learning and equip students with emerging geospatial and digital technology skills relevant to contemporary academic and professional environments.

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**Value-added course on  
Applied GPS and Mobile Data Collection Techniques**  
Date : 18 - 23 May, 2026.



*. **Figure 2.** Group photograph of participants and resource persons who successfully completed the Value Added Course on Applied GPS and Mobile Data Collection Techniques conducted by the Division of Geoinformatics, School of Life Sciences, JSS AHER.*