

**WORKSHOP FOCUS:**

**Wednesday – Feb 17th, 2021:**

1. Advancement in Land Surveying Technologies.
2. Field works and hand on exercises using Total Station.
3. Computer Aided Designs (CAD) works.

**Thursday – Feb 18th, 2021:**

1. Field works using Handheld GPS and Mobile GPS for Surveying.
2. Aerial Mapping of Land Features using Drone Technologies
3. Cartography, Mapping and Visualization



**Jointly Organized by**

Department of Studies in Geography & Centre for Geoinformatics Technology  
Manasagangotri, University of Mysore, Mysuru.

**Invitation for Two Days Workshop**

On

**“ADVANCED LAND SURVEYING TECHNOLOGIES”**



Jointly Organized by  
Department of Studies in Geography  
&  
Centre for Geoinformatics Technology,  
Manasagangotri Campus,  
University of Mysore, Mysuru



17<sup>th</sup> to 18<sup>th</sup> February 2021  
(Wednesday and Thursday)



**Venue: R.P.MISRA Hall, DOS in Geography**

To,

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## INAUGURATION PROGRAM SCHEDULE

**Inaugural Function** 09:30 am to 10:30 am

Welcome Speech:

**Prof. RAMU**

Coordinator, Centre for Geoinformatics Technology,  
DOS in Geography, Manasagangotri,  
University of Mysore, Mysuru

Inaugural Address:

**Prof. SHIVAPPA**

Registrar, University of Mysore, Mysuru-05

Presided by:

**Prof. B. CHANDRASHEKARA**

Chairman, DOS in Geography, University of Mysore, Mysuru-06

Guest of Honors:

**Mr. SHIVAKUMAR**  
Proprietor  
S&S Surveys, Mysuru

**Mr. G.S. SUMOGH**  
Managing Director,  
EagleEye Drones Pvt Ltd, Mysuru

Vote of Thanks

**Prof. P. JAYASHREE**

Professor, DOS in Geography,  
University of Mysore, Mysuru

Organising Committee:

**Prof. B. Chandrashekhara**, Chairman  
**Prof. Asima Nusrath**, Professor  
**Prof. H. Nagaraj**, Professor  
**Prof. P. Jayashree**, Professor  
**Prof. RAMU**, Professor  
**Prof. Arun Das S**, Professor  
**Dr. Rajesh Y.P.**, Technical Staff

Technical Team:

**Dr. H.V. Rekha**, GIS  
**Dr. C. Papanna**, GIS  
**Dr. M. Vinay**, GIS  
**Mr. Shashi Kumar S**, GIS  
**Dr. Vishwanatha S**, Geography  
**Dr. Sowmyashree K.L.**, Geography  
Research Scholars of Geography/GIS  
department and non-teaching staffs.

Convener

**Prof. P. JAYASHREE**

Professor, DOS in Geography,  
University of Mysore, Mysuru

Co-Convener

**Dr. Rajesh Y.P.**

Technical Staff, DOS in Geography,  
University of Mysore, Mysuru

### University of Mysore:

The University of Mysore was established on July 27, 1916. It is the sixth oldest in the country and the first in the state of Karnataka. Also, in a sense it is the first university of the country to be established outside the limits of the British India. The university was founded as a result of the efforts of the benevolent and visionary Maharaja of erstwhile Princely State of Mysore His Highness Shri Nalvadi Krishnaraja Wadiyar - IV (1884-1940), and the then Diwan Sir M. Visvesvaraya (1860-1962). It was the first University to be accredited by NAAC in 2000 with Five Star Status. The university is now ranked 36th in the India Rankings 2017, NIRF-MHRD, Government of India.

### Department of Geography and Centre for Geoinformatics Technology:

The **Department of Studies in Geography** was started in the year 1959-60. This is the first and the oldest Geography department in Karnataka and second in the whole of South India. Initially, the department was situated at Maharaja's College and later shifted to Manasagangotri, Campus in the year 1962-63. In the beginning the classes were conducted at Jayalakshmi Vilas Mansion and shifted to the present place in the year 1965. Dr. R.P. Mishra took over the headship of the department in 1965 and under his able leadership the department achieved good progress. Prof. Mishra, by his untiring efforts and dynamism placed the Geography department on the map of world Universities.

The **Centre for Geoinformatics Technology** has initiated from the M.Sc. GIS course was started in 2008 in the Department of Geography, Maharaja's College, University of Mysore as a UGC Innovative programme for creating professionals well-versed in geospatial technologies like GIS and Remote Sensing. The Course was shifted to the DOS in Geography, Manasagangotri Campus, University of Mysore in the year 2014 with a change in nomenclature as **Centre for Geoinformatics Technology**. Every year 20 to 25 students pass out of the course **with cent percent placement**. Considering the increasing demand of GIS professionals in the country, the Center has different courses like M.Sc in GIS, P.G. Diploma in GIS, Diploma in GIS and Diploma in Remote Sensing courses offered to various regular and part-time scholars.

### About the Land Surveying

Land surveying is the technique, profession, and science of accurately determining the terrestrial or three-dimensional position of points and the distances and angles between them, commonly practiced by various scholars ranging from Geographers, earth scientist, environmentalist, Urban/Rural planners, Geologists and other interdisciplinary scholars.

Workshop on "Advanced Land Surveying Technologies" is hosted under the Teaching and Research Initiative which is Jointly Organized with Department of Studies (DOS) in Geography and by the Centre for Geoinformatics Technology, DOS in Geography, University of Mysore with a view of:

Enhance the knowledge and understanding of land surveying technologies in teaching and research to the students of Geography/Geoinformatics.

To impose the knowledge of various cross cutting and vertical sub-domain of land surveying such as Theodolite Survey, Total Station Survey, GPS and Aerial Mapping using Drone Technologies.



**DEPARTMENT OF STUDIES IN GEOGRAPHY**  
UNIVERSITY OF MYSORE, MANASAGANGOTTHRI, MYSURU - 570006, KARNATAKA

**Dr. P JAYASHREE**  
Professor

Mob: +91 9901259597  
Office: 0821-2419693  
Email: drjayashreeram@gmail.com

Date: 28-01-2021

To

**The Registrar**  
Crawford Hall, University of Mysore,  
Mysuru 570005

Through,

**The Chairman**  
DOS in Geography, MGM

Respected Sir,

**Sub:** Conducting of two days' workshop on "ADVANCED LAND SURVEYING TECHNOLOGIES" on 17<sup>th</sup> and 18<sup>th</sup> of February 2021.

The proposed workshop "ADVANCED LAND SURVEYING TECHNOLOGIES" is decided and jointly organized by the Department of Studies (DOS) in Geography & Centre for Geoinformatics Technology for the Final year PG Students and Research Scholars of the Geography/Geoinformatics under our Initiative for Geoinformatics Teaching and Research. The workshops will be restricted to 80 participants who would go through Introductory and Advanced Land Surveying Technologies (2 days) workshop.

I am enclosing the detailed proposal outlining the purpose, content, time table and budget requested for conducting the workshop as planned during 17<sup>th</sup> and 18<sup>th</sup> February 2021. The budget estimated and requested is of Rs. 90,000/- (Ninety thousand rupees only). Accommodation may be provided for the resource persons at the University Guest Houses free of cost.

I request you kindly consider the proposal and approve for the betterment of the students and scholars of the department.

Thanking you,

Yours sincerely,

**Prof.P.Jayashree**  
Convener

**Copy to:** The Hon'ble Vice Chancellor, UOM

No. MGGR/305/2020-21 dated 28.01.2021

Forwarded with compliments to the Registrar, University of Mysore, Mysuru for the further needful action.

Chairman

DOS in Geography

Department of Geography  
University of Mysore

**A Brief Proposal for  
Workshops on  
"ADVANCED LAND SURVEYING TECHNOLOGIES"  
(For PG Students of Geography and GIS)  
February 17<sup>th</sup> – 18<sup>th</sup> 2021 (Wednesday to Thursday)**

**Jointly Organized with  
DEPARTMENT OF STUDIES (DOS) IN GEOGRAPHY  
&  
CENTRE FOR GEOINFORMATICS TECHNOLOGY  
Department of Studies (DOS) in Geography,  
Manasagangothri  
University of Mysore, Mysuru 570 006**

This brief proposal for two days workshop on "Advanced Land Surveying Technologies" is hosted under the Teaching and Research Initiative which is Jointly Organized with Department of Studies (DOS) in Geography and by the Centre for Geoinformatics Technology, DOS in Geography, University of Mysore with a view of

(a) Enhance the knowledge and understanding of land surveying technologies in teaching and research to the students of Geography/Geoinformatics.

(b) To impose the knowledge of various cross cutting and vertical sub-domain of land surveying such as Theodolite Survey, Total Station Survey, GPS and Aerial Mapping using Drone Technologies.

(c) The hands-on training includes both the practical on field and in laboratory for mapping applications.

**What is Land Surveying?**

Land surveying is the technique, profession, and science of accurately determining the terrestrial or three-dimensional position of points and the distances and angles between them, commonly practiced by licensed surveyors, and members of various domains ranging from geographers, earth scientist, environmentalist, Urban/Rural planners, Geologists and other interdisciplinary scholars. Land surveying is the detailed study or inspection, as by gathering information through observations, measurements in the field, questionnaires, or research of legal instruments, and data analysis in the support of planning, designing, and establishing of geographical boundaries.

The proposed workshop on “**Advanced Land Surveying Technologies**” for PG Students/Research Scholars for the purpose of introducing **Components, Concepts and Approaches, and Possible applications** within the limited period of 2 days.

The specific dates of the Workshop are as follows:

**1. Workshop: February 17th – 18th 2021 (Wednesday to Thursday)**

The workshop will focus on both **Theory and Practice** in blended (lecture and hands-on) teaching with **external as well as internal expert teachers drawn from academics and industry.**

The Workshop during Week of February 2021 are indeed a planned means of accessing and informing target audience about the usefulness of Land surveying for future career aspects. Especially in the context of Land Management, such that students will become well versed with recent technologies in land surveying and they are expected to become the potential aspirants for the surveying domain.

To keep the Land Surveying technologies simple enough for appreciation and adoption, the workshop attempt at giving

- a) Lectures using PowerPoint's Presentation in Seminar Hall ,
- b) Demonstrations of land surveying technological capabilities at the premises of Manasagangotri campus.
- c) Surveys includes outdoor mapping for generating spatial datasets using advanced instruments for various applications.

The technical sessions for the workshops are planned in a way that there will be enough exposure to the concepts, workings and applications of land surveying (6 hours a day), by way of introducing and teaching at intermediate and advanced levels:

1. Basics of Cartography, Mapping, Visualization and Applications.
2. Basics of EDM Instruments. Theodolite and Total Stations instruments.
3. Basics of Global Positioning Systems (GPS) for Positioning
4. Basics of Aerial Mapping using Drone Technologies.
5. Laboratory Exercises - Mapping with GIS, Printing and Réproduction of Maps.

Invited Resource Persons and Faculty members of DOS in Geography and Centre for Geoinformatics Technology will handle the classes and help with laboratory exercises, hands-on and land surveys in outdoor.

## PARTICIPANTS AND INTAKE

- Final year PG Students from M.Sc Geography (All PG Centers of UOM including Maharajas College and Maharani College) and M.Sc GIS.
- Maximum of 80 participants are accommodated for a workshop.

## BUDGET REQUESTED FROM THE UNIVERSITY FOR THE WORKSHOPS

The budget asked for the Workshops is in the amount of Rs. 90,000/- (In Words: Rupees One Lakhs and Fifty five thousand only).

Sl. No	Items	Rupees
1	Course materials and Workshop Kit	15,000/-
2	Honorarium/TA/DA/ for Resources Persons, Equipment Rent	50,000/-
3	Miscellaneous expenses (Inaugural, Food, Tea, Snacks, Valedictory, Certificates and others)	25,000/-
	<b>Total</b>	<b>90,000/-</b>
In Words: Ninety thousand rupees only.		

### Justification for the Budget

- In order to run the 2 days workshops, we require office supplies such as A4 paper bundles Brochure for Invitation, folder files for students, writing pad, pens, drawing sheets and other expenditures. Hence, Rs. 15,000 is asked for Course materials and Workshop Kit
- Travelling allowances as per University TA Norms to the resource persons (about 2 or 3 for each of the days) would approximately amount to Rs. 20,000. Drone equipment rent per day is 7500rs with operator, for two days 15,000/-. Whereas honorarium for resource persons would be Rs. 15,000. The honorarium will be for theory, practical, and hands-on classes at the classroom and the lab, and also field surveys with differential GPS surveys as demonstrations of surveys that are necessary for developing spatial databases for mapping with spatial technologies.
- Besides the above, a miscellaneous fund of Rs. 25,000 of workshops is also requested.
- In total, 90,000/- INR is required to furnish the workshop expenses.

## TECHNICAL SESSION FOR WORKSHOP

TENTATIVE SCHEDULE FOR THE PROPOSED WORKSHOP		
Date	Time Slot	Programme
17 <sup>th</sup> February 2021	09.30am to 10.00am	Registration and Inaugural
	10.00am to 11.20am	Introduction to Land Survey
	11.20am to 11.30am	Tea Break
	11.30am to 01.30pm	Theodolite Field Survey
	01.30pm to 02.00pm	Lunch
	02.00pm to 05.00pm	Total Station Surveying
18 <sup>th</sup> February 2021	09.30am to 11.20am	Global Positioning System
	11.20am to 11.30am	Tea Break
	11.30am to 01.30pm	Drone Technologies: Aerial Mapping
	01.30pm to 02.00pm	Lunch
	02.00pm to 03.00pm	Survey Data Visualization and Mapping
	03.00pm to 04.00pm	Valedictory and Certificate Distribution

Convener

**Prof.P.JAYASHREE**  
Professor

Co-Convener

**Dr.Y.P.RAJESH**  
Technical Staff  
DOS in Geography

Co-Convener

**Prof.RAMU**  
Course Coordinator  
Center for Geoinformatics Technology

### Organizing Committee

**Prof.B.Chandrashekara**  
Chairman, DOS in Geography

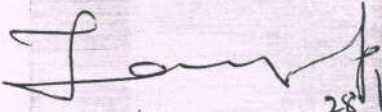
**Prof.Asima Nusrath**  
Professor, DOS in Geography

**Prof.H.Nagaraj**  
Professor, DOS in Geography

**Prof.Arun Das S**  
Professor, DOS in Geography

### Technical Team

**Dr.H.V.Rekha**  
**Dr.C.Papanna**  
**Dr.M.Vinay**  
**Mr.Shashi Kumar S**  
Research Scholars & Office staffs

  
28/1/2021  
**Dr. P. Jayashree, M.A., Ph.D.**  
Professor  
D.O.S. in Geography  
University of Mysore  
Mysore-570 006