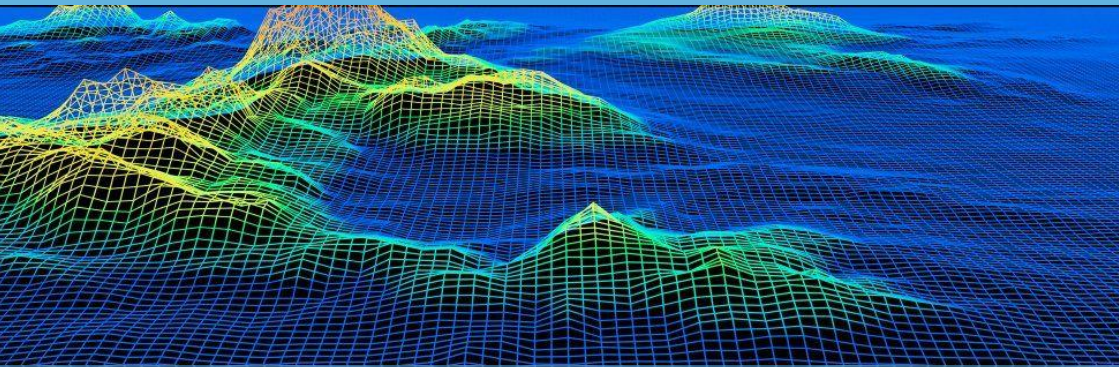


# LiDAR Training

Value Addition | Offline/Online/Hybrid

Duration: 40 hours

**REGISTER NOW**



# **KHAGOLAM**

**Institute of Geoinformatics**

[www.khagolam.com](http://www.khagolam.com) | [info@khagolam.com](mailto:info@khagolam.com) | +91 98929 98626



## Course Information

Course Title: **Working with LiDAR Data**

Duration: **40 Hours**

Training Modes: **Offline/Online/Hybrid | Full Time/Part-time**

Timing: **Min 3 hours/day | Max 8 hours/day**

## Course Eligibility

- Knowledge of GIS concepts
- Understanding of isometric and orthographic views will add benefits.
- MicroStation is covered. (refer MicroStation Course)

## Fee

25,000 INR, for resident Nationals of India, Nepal, Bhutan, Bangladesh, Sri Lanka and Maldives, & Myanmar.

650 USD, For Non-Residents of India.

**INSTALMENTS:** 5,000 on registration.  
20,000 - before the course starts.

Software's	Technologies
<ol style="list-style-type: none"><li>1. Microostation</li><li>2. Terra Tools</li></ol>	<ol style="list-style-type: none"><li>1. LiDAR</li><li>2. CAD</li></ol>

## Overview

In India and Asian countries LiDAR technology is emerging and being employed extensively. LiDAR can be used for mapping urban areas, rapid surveys, building 3D city models, monitoring infrastructure projects, mining etc. Skilled map power on LiDAR data processing has huge demand in India. LiDAR skills can be employed or has job opportunities in building construction, infrastructure development, archology, heritage preservation, agriculture and may other sectors. LiDAR training will be useful for DJI Zenmuse L1 Surveying data processing.



This LiDAR training course teaches the fundamental concepts of LiDAR technologies along with hands-on exercises on software tools. This includes Principles, Laser physics, Operation, Data formats, Modern trends, Applications, Error analysis, Data processing concepts and issues, Information extraction, feature extraction, Integration with spectral data, and 3D city model generation. Practical assignment covers data format conversion, visualisation, accuracies, point classification, error analysis, DEM generation, contour generation, feature extraction like building, powerline and trees, and Integration of LiDAR.

## Learning Objectives

1. Work with MicroStation tools
2. Describe concepts of LiDAR data, and how it works
3. Enumerate various applications of LiDAR surveying
4. Describe the procedures of LiDAR data collection
5. Understand various LiDAR sensors available in the Indian market with its specification
6. Describe characteristics of photogrammetric vs LiDAR point cloud data
7. Visualise the point cloud in different interactive ways
8. Describe accuracies and errors in LiDAR data output products like DSM, DTM
9. Use feature interpretation and extraction techniques
10. Understand common problems in classifying ground, restoration methods, and noise removal methods. Usages of macros for automation
11. Classify point cloud using automatic and manual methods
12. Identify, Classify and extract features like buildings, powerlines, trees, water bodies, vegetation classification, roads, bridges, culverts etc.
13. Create the surface model and edit the surface
14. Create digital elevation and digital terrain models
15. Create topographical contour using ground point cloud



## How to Apply

Step 1: register at: <https://www.khagolam.com/home/register>

Step 2: Check mail for course & bank details

Step 3: Transfer payment & share transaction receipt on WhatsApp.

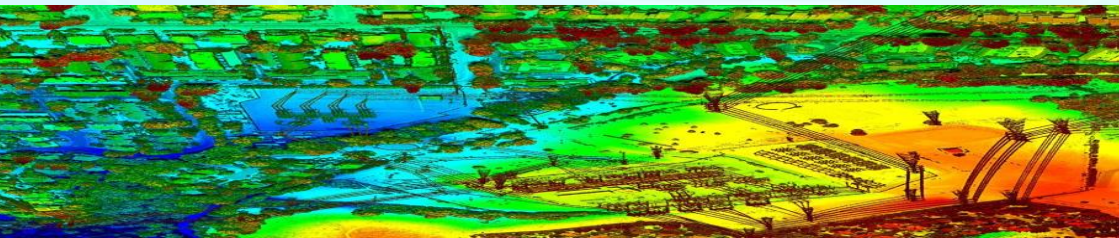
Step 4: You will receive registration confirmation, by SMS/Call/WhatsApp.

**REGISTRATION SHALL CLOSE 4 DAYS BEFORE THE START DATE. SPOT REGISTRATIONS ARE NOT ALLOWED.**

## FAQ's

*Q: Does fees include accommodation and food?*

A: No, but we can help you to get the nearest accommodation.








## Why Khagolam:

- Specialize institute for geospatial technologies
- Job oriented curriculum
- Comprehensive training material
- 100% placement assistance
- Professional Trainers
- Exposure to live projects
- Flexible timings
- Exposure to 3D GIS
- Practice, aptitude and interview rounds
- e-library facility



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Be in touch @   

