

## REGISTRATION FOR EXECUTIVE TRAINING PROGRAM



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## EXECUTIVE TRAINING PROGRAM ON GIS and Drone Survey for Town Planners in Delhi/NCR

14<sup>TH</sup> JULY 2025 – 19<sup>TH</sup> JULY 2025

### VENUE:

INSTITUTE OF TOWN PLANNERS, INDIA  
4A, RING ROAD, I.P. ESTATE, NEW DELHI – 110002

EXECUTIVE  
TRAINING  
PROGRAM



INSTITUTE OF  
TOWN PLANNERS  
INDIA, NEW DELHI

## GIS and Drone Survey for Town Planners in Delhi/NCR

5 Days Regular Program  
Offline Mode

14<sup>th</sup> JULY 2025 – 19<sup>th</sup> JULY 2025



ITPI Auditorium, New Delhi



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## introduction

The Executive Training Program on "GIS and Drone Survey for Town Planners" is designed to equip town planners with essential tools for modern spatial analysis and data acquisition. Geographic Information Systems (GIS) empower planners to visualize, analyze, and interpret spatial data, enabling informed, data-driven decision-making. Meanwhile, drone technology offers high-resolution aerial imagery and rapid data collection, capturing fine-grained details with speed and efficiency. When integrated, GIS and drone surveys create a powerful synergy that enhances the accuracy, efficiency, and comprehensiveness of planning processes. This training program aims to provide participants with both theoretical understanding and hands-on experience, enabling them to effectively apply these technologies in planning and design scenarios. Through this course, town planners will be better equipped to meet the growing demands of sustainable and informed urban and regional development.

# "Executive Training Program on GIS and Drone Survey Technology"

**Dates: 14<sup>th</sup> June 2025 to 19<sup>th</sup> June 2025**

- Understand the fundamentals of GIS and its role in urban planning: Participants will develop a solid grounding in GIS principles, including spatial data analysis, georeferencing, map creation, and data visualization, with a focus on their application in urban and regional planning.
- Learn about drone technology and its application in surveying: Attendees will explore the capabilities of drone systems, understanding how they are used to capture high-resolution aerial imagery and collect geospatial data efficiently over large and complex terrains.
- Integrate GIS and drone technologies to improve planning outcomes: The course will demonstrate how to combine drone-acquired imagery with GIS tools to produce accurate base maps, conduct land use analysis, and support evidence-based planning and design decisions.
- Enhance the ability to interpret spatial data and aerial imagery: Participants will gain skills to critically analyze spatial datasets and aerial photographs, recognize patterns and trends, and apply these insights to real-world planning challenges.
- Gain hands-on experience with GIS software and drone operation: Through interactive practical sessions, participants will learn to operate drones, process survey data, and use GIS software, ensuring they are prepared to apply these technologies effectively in their professional work.

## Programme Outline:

### Day1

Session1: Introduction to GIS / Applications of GIS in Planning  
Session 2: Use cases: Master plan / Property tax / Change detection

### Day2

Session 1: GIS data / Data collection / Georeferencing / Digitization / Attribute data / Thematic maps  
Session2: Georeferencing / Digitization / Attribute data / Thematic maps

### Day3

Session1: Data attributes / Data analysis  
Session2: Drone in Planning / Applications / Data capture / Processing / Output

### Day4

Session1: Data capture using drone  
Session2: Drone data processing

### Day5

Session1: Recap / Hands on using drone data  
Session2: Recap / Hands on using drone data



## FEE STRUCTURE

**Others : INR 8000/- (Including GST)**  
**ITPI Members : INR 4000/- (Including GST)**

## WHO SHOULD ATTEND

This training is designed for

- town planners,
- urban designers,
- GIS specialists, and
- land surveyors
- who are looking to expand their technical skills and incorporate GIS and drone technology into their projects.
- It will benefit planners, working in urban development, transportation, infrastructure, environmental planning, and other related fields.

## EXPECTED OUTCOME:

- By the end of the training programme, participants will:
- Gain practical skills in using GIS software for urban planning tasks such as spatial analysis, map creation, and land-use zoning.
  - Learn to operate drones safely and capture high-quality aerial imagery for surveying and planning applications.
  - Develop the ability to integrate drone imagery into GIS platforms to produce accurate and detailed maps, including 3D visualizations.
  - Build competency in analyzing geographic data and drone-captured imagery to support informed decision-making.
  - Enhance their capacity to streamline planning workflows, reduce project costs, and improve the accuracy and efficiency of planning and design processes.