






<p>Title:</p>	<h1>Geospatial Technologies for Urban Planning</h1> <p>INCLUDES – GIS, GPS, REMOTE SENSING, LIDAR</p>	<p>Why Khagolam:</p> <ul style="list-style-type: none"> • Specialize and Dedicated institute to geospatial technologies • Job oriented curriculum • Comprehensive training material • 100% placement assistance • Professional Trainers • Exposure to live projects • Convenient batch timings • Exposure to 3D GIS • Practice aptitude and interview rounds • Library facility
<p>Duration & Fees Structure:</p> <div data-bbox="119 1308 347 1451" style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>Refer your friend & Get</p> <h2 style="text-align: center;">10% OFF</h2> <p style="font-size: 8px; text-align: center;">Valid for Selected courses and limited period.</p> </div> <div data-bbox="113 1480 352 1626" style="border: 2px solid black; padding: 10px; margin-bottom: 10px;"> <p style="text-align: center;">Group Discount 20%</p> </div>	<p>80 hours</p> <p>27,000 INR, for resident Nationals of India, Nepal, Bhutan, Bangladesh, Sri Lanka and Maldives, & Myanmar.</p> <p>750 USD, For Non-Residents of India</p> <p>Instalments:</p> <ul style="list-style-type: none"> 5,000 on registration 22,000 - before course start 	
<p>Category:</p>	<p>Job-Oriented Course / Value Addition Course</p>	
<p>Prerequisites:</p>	<ul style="list-style-type: none">  Knowledge of computers  Should know mapping concepts  Domain knowledge of urban planning 	

<p>Who Should Attend?</p>	<ul style="list-style-type: none"> ✚ Student and graduates in Urban, Regional or Town Planning, Urban Design ✚ Town Planners ✚ Government officials of Town planning, Valuation departments ✚ Urban planners who are responsible for managing the environment increasingly rely on Geographic Information System (GIS) to even the odds.
<p>Overview:</p>	<p>Consultants and Government town and country planning department started following best practices with GIS, GPS, Remote Sensing, LiDAR and advance surveying technologies like Total Station Surveying, Drone Surveying to speed up planning process. New smart city reforms heavily employ and relies these technologies. Having skills and competence on these technologies increase job/ employment value of Urban Planning professionals. Earth environment is a single, vast interdependent system. We cannot make demands on the environment in one part of the world without creating consequences in another. Earth’s increasingly complex environmental challenge demand increasingly sophisticated solutions. Geographic information system (GIS) is one solution to humanity’s need to better manage.</p> <p>In this training class, you will learn about GIS, GIS Data sources, GIS Analysis, Terrain analysis concepts from perception of urban planners. Along with real implementation examples in India, hands-on practical exercise exposure of Urban Planning/Design Life Cycle. This contains projections and coordinate systems transformation, geo-referencing, digitization, and topology, map layout of human settlements /planning, compilation of data from various urban data sources like Total Station, GPS, and LiDAR. Advance analytical technics cover geo-coding, table join and relates, geostatistical analysis, overlay analysis, surface interpolation methods and data exploration technics of urban environment parameters, thematic map preparation. Remote Sensing includes LULC (Land Use Land Cover) image classification technics, information on free sources of remote sense satellite data and DEM, construct DEM using LiDAR data like .las files. You will create visualise 3D GIS data, topographic maps and existing planning maps of ELU (Existing Land Use), PLU (Proposed Land Use), revenue, cadastral and land parcel maps. Course also demonstrate specially emphasis on urban and environmental case studies for betting design and vision. Concepts presented in lecture will be put into practice through hands-on laboratory exercises utilizing the GIS software.</p>
<p>You will learn:</p>	<p>After completing the course you will be able to:</p> <ul style="list-style-type: none"> ✚ Understand Map concepts, how GIS works, technical terms in GIS, common task in GIS ✚ Describe types of data model and its uses, difference between vector and raster, consideration of scale and generalization ✚ Give example on analysis unit and aggregation considerations ✚ Explain types of coordinate system, and their need ✚ Explain and prepare types of maps and their comparison, appropriateness to map variables for different application ✚ Explain types of measurement scale and difference among them, use of scale specific theme ✚ Use appropriate kinds of classification terms and data exploration terms to study urban environmental parameters

- ✚ Describe and use of thematic maps in planning and decision making
- ✚ Understand map elements and consideration for effective map composition
- ✚ Explain related geo-technologies like GPS, LiDAR, Remote Sensing etc
- ✚ Create and visualise 3D data mapping, mobile mapping and its advantage
- ✚ Understand database tables, importing exporting data from spreadsheets, text files etc
- ✚ Understand joining of the data based on a unique field, view statistics and groping data tables
- ✚ Explain procedure and perform geo-referencing, digitization and errors occurs while digitization
- ✚ Understand and use GIS, remote sensing, LiDAR and other data sources and formats from local, state and central government
- ✚ Define point to consider for data appropriateness, analyse the relevance and quality of the data, importance of metadata,
- ✚ Describe and perform type of analysis can be perform in GIS, functions and their input, outputs
- ✚ Give example on how GIS can be used for problem solving
- ✚ Describe methods of Surface interpolation and its applications
- ✚ Prepare ELU & PLU (Existing Land Use & Proposed Land Use) maps
- ✚ Prepare LULC map using image classification

Case Studies Demonstrated on (any two - optional):

- ✚ Nonprofit Organization GIS Strategic Planning and Public Outreach
- ✚ GIS Use by Urban Nonprofit Organization for Housing Initiatives and Urban Services
- ✚ Delivering Health-care Services to an Urban Population
- ✚ Natural Habitat and Open Space Assessment
- ✚ Urban Environment Planning
- ✚ Emergency Management and Disaster Response
- ✚ Infrastructure Mapping for Planning and Maintenance
- ✚ Archaeology and Historic Reservation with GIS
- ✚ Health and Environmental Justice
- ✚ Crime Pattern Analysis
- ✚ Community-based Planning
- ✚ Advocacy Planning and Public Information



Tools & Skills:

INDUSTRY TOOLS:

1. ArcGIS Desktop - Geostatistical Analyst, Spatial Analyst, 3D Analyst
2. Google Earth Pro

EMPLOYABLE SKILLS MEASURED:

3. Geo-referencing (Image to Image, Point to Image)
4. Digitization and Topology
5. Map composition
6. Data Exploration, Thematic map/report
7. Geo-coding
8. Table join and relate, import export tabular data
9. Data compilation from ETS, GPS, LiDAR, Satellite Images
10. Geostatistical Analysis, Spatial Analysis, 3D Analysis

	<ol style="list-style-type: none">11. 3D data creation and visualisation12. Surface interpolation methods13. Image processing technics and LULC classification14. Data collection with GPS for ELU map, prepare ELU map15. PLU map preparation
Training Mode:	<ul style="list-style-type: none"> Classroom - Instructor Lead Online - Instructor Lead
How to Apply:	<p>Click here to know bank details and step by step registration process.</p> <p>Register Online</p>
FAQ's:	<p>Q: Dose fess includes accommodation and food</p> <p>A: No. but we can help you to get nearest accommodation</p>

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