



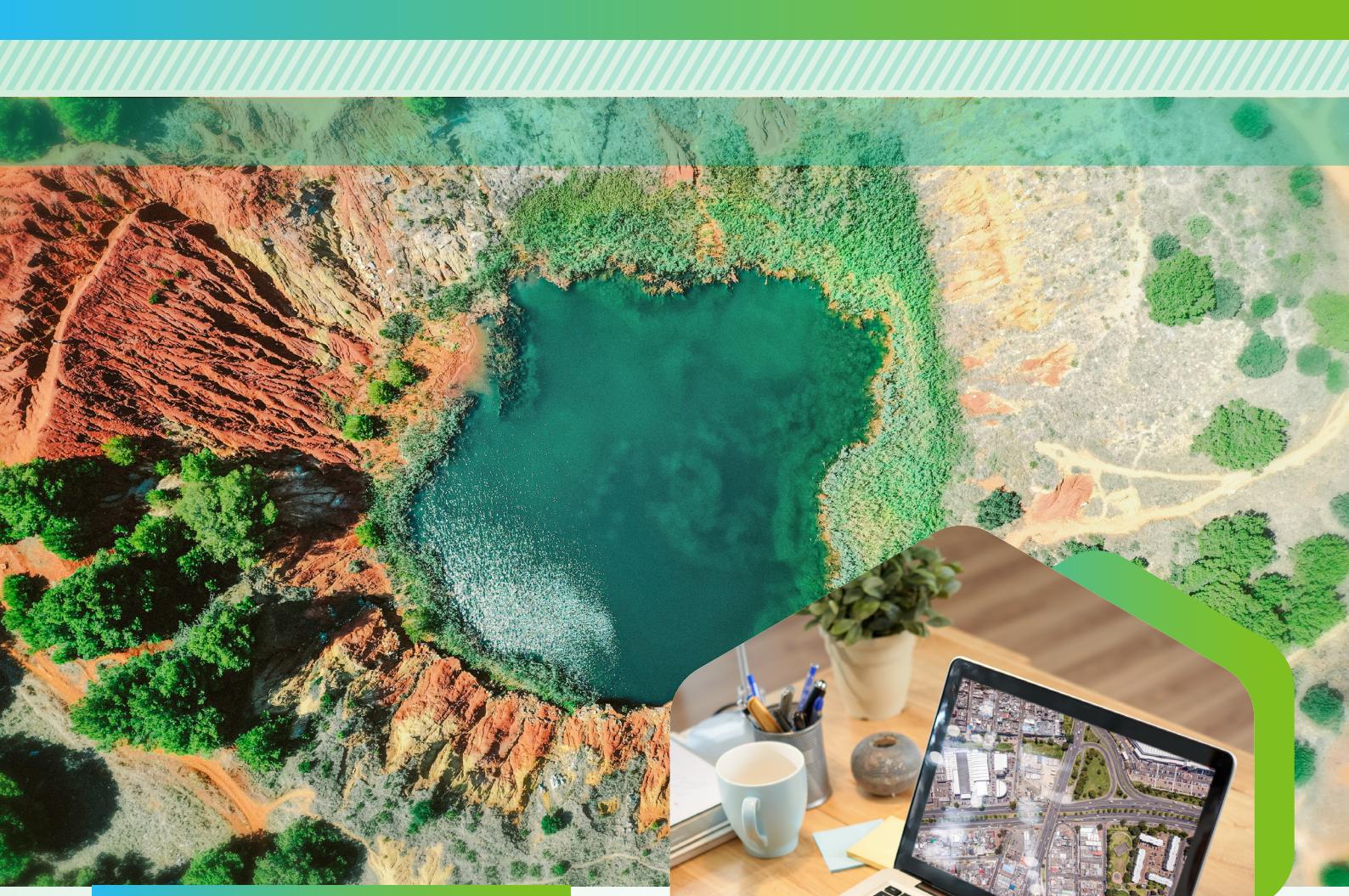
A 5-day residential program

A.D.A.M.S

Advanced Data Acquisition for Mapping & Solutions

An exclusive, hands-on program for students enriched
with industry-leading tools and technologies.

A Geospatial Techonology
Hands-on module



Geospatial technology has become an essential tool for decision-makers in various fields, providing them with accurate and relevant information that helps them make informed decisions.

These tools capture spatial information about objects, events and phenomena (indexed to their geographical location on earth, geotag).

The technology may be used to create intelligent maps to help identify spatial patterns in large volumes of data.

The technology facilitates decision making based on the importance and priority of scarce resources.

What is Geospatial Technology

Geospatial technology refers to the use of satellite-based GPS, GIS (Geographic Information System), remote sensing, and other related technologies to collect, analyze, and interpret spatial and geographic data.



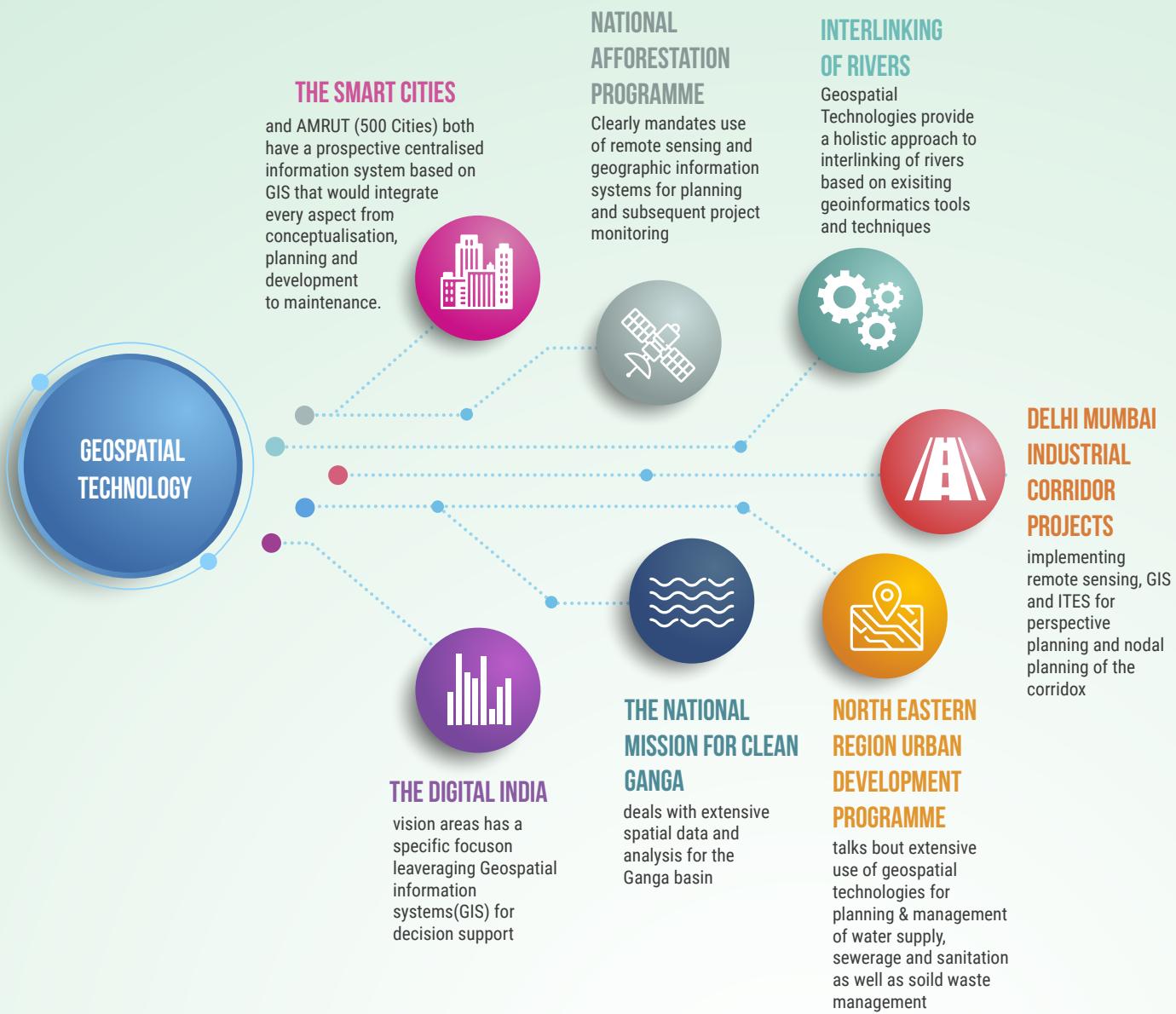
About Geospatial Technology

Today such applications and tools are available and are being advanced for improved performance of a country towards all major verticals of economy like agriculture, mining, infrastructure, transportation, logistics, homeland security, disaster management, defense, urban planning etc.

The Digital India vision areas has a specific focus on leveraging Geospatial Technology for Decision Support Systems and Development.

Geospatial Technologies are considered as one of the most powerful technologies that can effectively serve overall developmental needs of the modern world.

"Geospatial technology has been driving inclusion and progress. India's steps at building infrastructure was on the backbone of geospatial technology. India's geospatial sector had been opened up for its young bright minds." said by the Prime Minister of India



Course Description

This course is prepared to introduce students to the use of geospatial technologies and decision making on thorough data Collection and analysis.

The module gives primary emphasis to the use of various geospatial equipment for data creation, mapping, and analysis and its applications in the current scenarios.

It will also cover the use of applications for field data collection and mapping using online tools and cartography for quality visualization and Representation of conditions, issues, and analysis results.

Hands-on Module



Digital Automatic Level

Tools, Data processing, Profiling & Report



Electronic Total Station

Control Points, Traversing, Mapping & Layouts



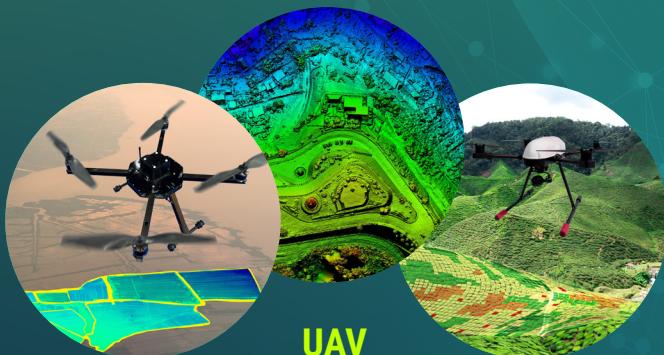
GNSS (Global Navigation Satellite Systems)

GNSS signals, codes, segments & applications



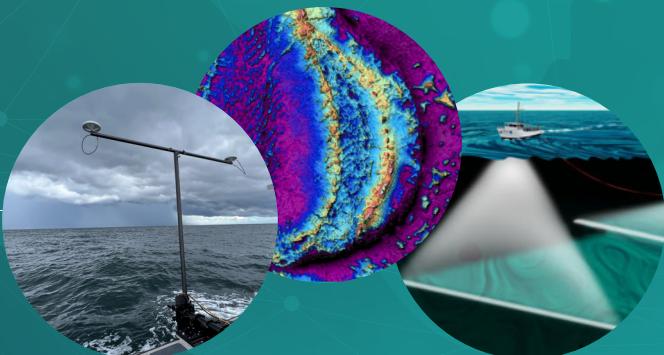
LiDAR (Terrestrial / Backpack)

Ground points, Surface generation & point cloud classification



UAV (Unmanned Aerial Vehicle)

Field Flying, AI with drone & 3D Mapping



Echosounder

Data exploration, Target detection, Tracking & Mapping

Objectives

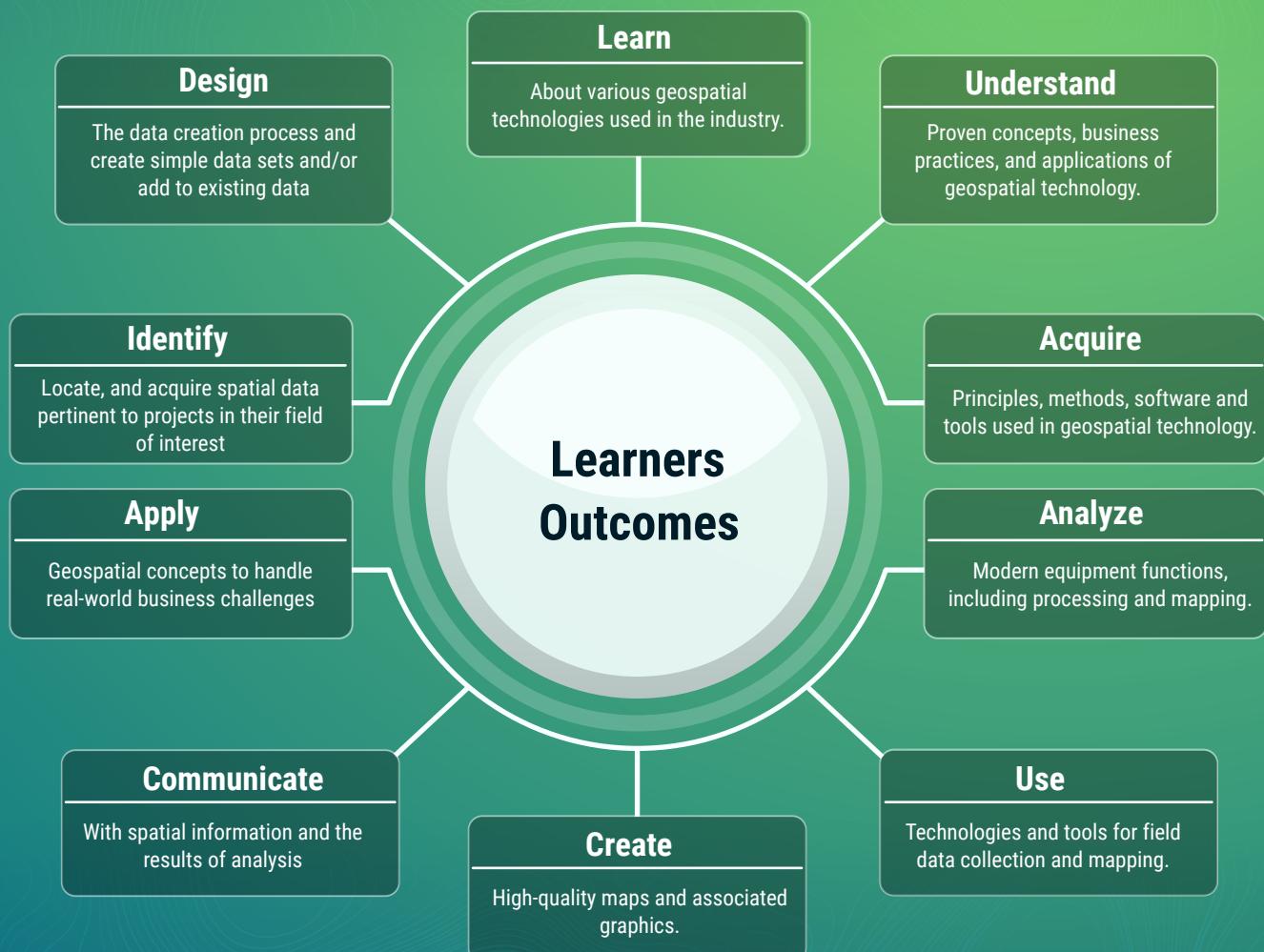


Learning & Training Path



Learning & Training Outcomes

By the end of the course, students will be very proficient in the use of geospatial technologies for mapping and analysis and have a practical understanding of concepts, techniques and real-world applications. Specifically, students will be able to



Highlights

- Exclusive access to L&T's state of the art training facility at Mysuru
- First of its kind specialised courses
- Built based on L&T's cutting - edge projects
- Access to skill exchange
- Access to Engineers Ensemble forum
- 20hrs expert curated video-based learning
- Case studies on real industry problems
- Webinar and industry talks on emerging areas



Reach out us on collegeconnect@Lntedutech.com
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