

**Spatial Data Analytics  
for  
GIS and Remote Sensing Applications**

**29<sup>th</sup> January to 3<sup>rd</sup> February, 2024**

**REGISTRATION FORM**

1. Name:
2. Age:
3. Gender:
4. Designation:
5. Department:
6. Organization:
7. Address for Communication:
  
8. Phone:
9. Email:

**Declaration**

The above mentioned information is true to the best of my knowledge and belief. I agree to abide by the rules and regulations governing the course. I also undertake the responsibility to inform the coordinator, in case I am unable to attend the program.

Place: \_\_\_\_\_  
Date: \_\_\_\_\_ Applicant's Signature

**Sponsorship**

Certified that Mr./Ms./Dr.....  
is an employee of this institution and is hereby sponsored for the training program, Spatial Data Analytics for GIS and Remote Sensing Applications at Government Engineering College Barton Hill being conducted during 29<sup>th</sup> January to 3<sup>rd</sup> February, 2024. If selected, he/she will be permitted to attend the program.

Place: \_\_\_\_\_ Signature of the  
Date: \_\_\_\_\_ sponsoring authority

(Seal of the Institution)



**Scan to apply**

**Contact Details**

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Email: [translationalengineering@gmail.com](mailto:translationalengineering@gmail.com)  
Website: [www.tplc.gecbh.ac.in](http://www.tplc.gecbh.ac.in)

**Directorate of Technical Education  
Sponsored  
Faculty and Staff Development Training  
Program**

**Spatial Data Analytics  
for  
GIS and Remote Sensing Applications**



**29<sup>th</sup> January to 3<sup>rd</sup> February, 2024**

**Venue: TPLC, GEC Barton Hill**



**TPLC**

**GOVT. ENGG COLLEGE, BARTON HILL**  
*Transforming jobs into skills to transform the nation*

**Organized by  
Translational Research and Professional  
Leadership Centre [TPLC]  
Government Engineering College  
Barton Hill, Thiruvananthapuram**

## About TPLC

Translational Research and Professional Leadership Centre (TPLC) is an inter-disciplinary center functioning at Government Engineering College Barton Hill, since 2015 with the introduction of the interdisciplinary M. Tech. program in Translational Engineering. The program is approved by AICTE and affiliated to the KTU. The Centre also undertakes projects of social relevance, involving students, faculty, Govt. departments and NGO's and offers a variety of training programs too.

## About the Training/ Course

Geospatial technologies are revolutionizing everything from tracking hurricanes, earthquakes, and erosion to urban planning. This is creating strong demand across many industries for professionals with the appropriate skills required to generate insightful analytics from remote sensing data. This program is designed to provide the participants with foundational knowledge and practical skills in geospatial programming, with a primary focus on Python, a powerful and widely used programming/scripting language.

At the end of the program, the participants will have practical and applied GIS/remote sensing skills for problem-solving, knowledge and understanding of tools, methods, and applications within geographic research and practice. Hands-on training will be provided in QGIS and python as part of the program.

## Resource Persons

Experts and Professionals with proven experience in handling spatial data analytics projects will be engaging the sessions.

## Course Objectives

- Familiarizing the basics of GIS and Remote sensing.
- Introducing basic programming for data analysis in GIS
- Learn the most popular open-source GIS and Remote Sensing software tools (QGIS), Semi-automated classification (SCP) plug-in.

## Learning outcomes:

On completion of this training program, the participant will acquire:

- Spatial data management and GIS/remote sensing skills and extensive understanding of technological advancements and applications in the area.
- A transferable skill set across a range of disciplines and work areas.

## Course Contents

- Spatial Data Analysis using python
- Programming for Geospatial analysis.
- Geospatial AI
- Weighted Overlay Analysis
- Hands-on in QGIS: LULC classification & Watershed delineation.
- Virtual Reality and GIS Integration
- Basics of Hyperspectral Remote Sensing
- Emerging GIS Trends
- Hands-on: Python interface in QGIS
- Statistical Modeling
- Web GIS

## Who can apply?

Professionals, Faculty, and Research Scholars who are interested in learning about spatial data science and analytics can apply. Participants from all streams are welcome as it is a beginner's program.

## Course Fee

There is no fee for participants from Government/Aided/Government controlled institutions. Faculty from self-financing institutions need to pay a fee of Rs.1,000/-

Payment can be made online to the TPLC Account.

## Account Details

Account Name: **TPLC**

Account No: **67314066447**

Bank: SBI Vikas Bhavan, Thiruvananthapuram

IFSC: SBIN0070415

## How to apply

### Registration link:

<https://forms.gle/7fVs6VJWuP6Q3iNs8>

Scanned copy of filled registration form along with proof of the online payment should be attached.

## Coordinators

- Dr. Suja R,  
Associate Professor & Coordinator  
TPLC, GEC Barton Hill  
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- Smt. Rajalakshmi C R,  
Assistant Professor  
TPLC, GEC Barton Hill  
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