RSIGST
SAIARD
ESTD.2019

*3 DAYS NATIONAL TRAINING PROGRAM (ONLINE)*

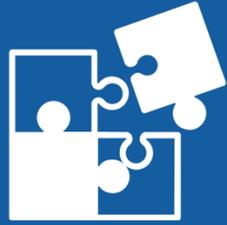# GEOSPATIAL TECHNOLOGY FOR LGBTQ SCHOLARS

*8 - 10 MARCH, 2024*

Presented by: *Radhanath Sikdar Institute of Geospatial Science & Technology*

*WWW.RSIGST.IN*

# ABOUT

## CONCEPT

In recent years, Geographic Information Systems (GIS) have emerged as powerful tools for spatial analysis, mapping, and decision-making across various fields. Recognizing the importance of equipping individuals with GIS skills, especially within underrepresented communities, this three-day training program aims to empower LGBTQ scholars with the knowledge and practical skills necessary to utilize GIS effectively in their research and advocacy efforts.

## OBJECTIVES

To introduce LGBTQ scholars to the fundamentals of GIS technology and its applications.
To provide hands-on training in GIS software and tools for data collection, analysis, and visualization.
To explore case studies and examples demonstrating the relevance of GIS in addressing issues relevant to the LGBTQ community.
To foster networking and collaboration among LGBTQ scholars interested in GIS and spatial analysis.
To empower participants to apply GIS techniques in their research, advocacy, and community engagement initiatives.

# SCHEDULE

## Day #1

### Introduction to GIS Fundamentals

Overview of GIS Technology * Definition and basic principles of GIS * Applications and relevance of GIS in various sectors * Introduction to GIS software and tools * Spatial Data Types and Sources * Types of spatial data (vector, raster) * Data sources and acquisition methods * Data formats and standards ·Basic spatial analysis techniques (buffering, overlay, spatial queries) * Introduction to geoprocessing tools * Hands-on exercises with sample datasets

## Day #2

### GIS Application in Data Management

Principles of data management in GIS * Introduction to geodatabases and data organization * Hands-on exercises in data management and organization *·Advanced spatial analysis techniques (network analysis, spatial interpolation) * Introduction to spatial statistics * Case studies demonstrating advanced GIS applications * ·Principles of cartography and map design *Techniques for creating informative and visually appealing maps * Hands-on exercises in map design and visualization

## Day #3

### Applying GIS in LGBTQ Research and Advocacy

Case Studies in GIS and LGBT Issues * ·Examples of GIS applications in addressing LGBT-related challenges (e.g., healthcare access, community resource mapping) * Discussion on potential research topics and projects * Brainstorming session on potential GIS projects relevant to participants' interests and communities * ·Discussion on future initiatives and potential partnership

## Application Link

https://rb.gy/sxktgz

**Course Fees: 500**

**Session: Fri, Sat & Sun (7 – 9 PM)**