

Background

Effective systems to monitor the progress and outcomes are essential in public health program implementation. Various lifestyle and environmental factors like climate, water, soil or air quality influence the population's health. Geographic Information Systems (GIS) correlate health indicators with such factors to highlight disease distribution and trends in simple visual formats. GIS thus facilitates spatiotemporal data visualization with efficient access to big data.

Objective

To equip HIV/Hepatitis/STI program researchers, scientists, and M&E staff with GIS skills for program monitoring.

Applications of GIS

- Identify regions of high disease burden and hotspots of high-risk groups
- Locate healthcare facilities and resources
- Determine population health in a specific area for disease surveillance
- Gather evidence on associated factors for focused interventions

Expected Learning Outcomes

- Improve Program Monitoring & Management
- Visualize Disease Distribution and Trends
- Identify Disease Clusters and Hotspots
- Enhance Service Delivery
- Disseminate knowledge



Capacity Building Training Workshop on Geographical Information Systems (GIS) in Public Health

08 - 12 JULY 2024

ICMR - NATIONAL INSTITUTE OF EPIDEMIOLOGY, CHENNAI

ICMR-NIE is a premier research institute of the Indian Council of Medical Research. Its primary goals include conducting epidemiological studies and capacity building in epidemiology and statistics. The institute offers various educational programs such as Masters in Public Health and Health Systems, MSc in Biostatistics, and Field Epidemiology Training Programs. Additionally, it organizes various online and offline courses and workshops covering topics on Health Research, Statistics, GIS in Public Health, and Science Writing.



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Register at

<https://icmrnie.in/redcap/surveys/?s=TEWNEDPT8T>

Technical Areas

- Need for GIS in Public Health
- Attribute & Spatial Data
- Data Visualization
- Digitization and Georeferencing
- Spatial analysis
- GIS-based Sampling method
- Spatial interpolation
- Heatmaps
- Real-Time Map Automation
- Cloud GIS

SCAN to Register



Who Can Attend?

- Researchers, Scientists and Investigators in Strategic Information (SI), Monitoring and Evaluation (M&E) roles who have worked in the HIV/Hepatitis/STI fields for at least three years.
- Age not exceeding 45 years.
- TA/DA & Accommodation will be supported by the organizers.
- All the participants are encouraged to bring their laptops and datasets for hands-on training and guidance.
- Last Date to Register: 31.05.2024