



Health Services Academy

Degree Awarding Institute (Restructuring) Act, 2018
Government of Pakistan



Geospatial Data Technology in the Immunization Programme

This course is designed for the Health profession exclusively, how to utilize the power of GIS in your official Health statistics, workflow, and Health census. This course aims to provide a comprehensive understanding of how geospatial data technology can enhance immunization programs. Participants will learn to leverage GIS tools and techniques to improve the planning, implementation, and monitoring of immunization campaigns

Module: 1. Geospatial Data Technology in the Immunization Programme

- Definition and types of geospatial data Technology.
- Spatial data extraction from Google Earth Pro
- Data collection tools: GPS, mobile data collection apps
- Basic GIS operations (data import/export, map creation, spatial querying)
- Use of labeling features with Label extension.
- Spatial Analysis Techniques

Module: 2. Spatial Analysis for Immunization Programs

- Techniques for mapping immunization coverage
- Visualizing spatial distribution of immunization data.
- Identifying areas with low coverage and high risk of disease outbreaks
- Impact of geospatial technology on vaccination outcomes
- Buffering and overlay analysis to identify service gaps
- Hotspot analysis to detect areas with low immunization rate
- Identifying high-risk areas with the buffering tool
- Spatial clustering and hotspot analysis
- Hands-on practice with GIS software

Duration:

3 Months (online weekend classes)

Certificate:

Earn a Certificate upon completion.



Apply Now

(online)

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Last date of
application submission **20th September 2024**

REGISTRAR

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