Offered by
Government of Pakistan
Ministry of National Health Services, Regulations and Coordination
Health Services Academy (HSA)

Course No.2:

Title: Maps and the Geospatial Revaluation (Making Great Maps)

Duration: 12 Weeks (2 day per week (Saturday to Sunday)

Software: ArcGIS 10.x MS excel, Labeling Analysis, Spatial Analysis

Certificate: Earn a Certificate upon completion

Participant Fee: 50,000

About This Course:

Learn how advances in geospatial technology and analytical methods have changed how we do everything, and discover how to make maps and analyze geographic patterns using the latest tools.

The past decade has seen an explosion of new mechanisms for understanding and using location information in widely-accessible technologies. This Geospatial Revolution has resulted in the development of consumer GPS tools, interactive web maps, and location-aware mobile devices. These radical advances are making it possible for people from all walks of life to use, collect, and understand spatial information like never before. This course brings together core concepts in cartography, geographic information systems, and spatial thinking with real-world examples to provide the fundamentals necessary to engage with Geography beyond the surface-level. We will explore what makes spatial information special, how spatial data is created, how spatial analysis is conducted, and how to design maps so that they're effective at telling the stories we wish to share. To gain experience using this knowledge, we will work with the latest mapping and analysis software to explore geographic problems.

Note: software will provide for this course ArcGIS (crack version).

Skills you will Gain:

Map, Geographic Information System (GIS), Cartography, Spatial Analysis, Map Projection, GPS

Acquire: valuable GIS mapping skills that employers seek.

Syllabus - What you will learn from this course

- Creating data visualization and smart mapping with ArcMap
- Understanding Spatial Data
- Doing Spatial Analysis
- Making Great Maps
- Label and composition
- Features Class and attribute table
- GIS file Types, Data Models, and Topology
- Map designing Principle

Suggested Skills:

- Experience with Windows-based software for basic file management, data management and browsing is required.
- Familiarity with GIS and cartographic concepts will be helpful, but is not required.
- Knowledge with Statistical, data analysis and census concept will be helpful but is not mandatory.

Use of GIS Skills:

We will explore how can use GIS to easily integrate location and spatial analysis in your workflows and how to utilize the power of GIS in your official statistic and census data set. Location is the connective thread allowing us to uncover hidden patterns, discover trends in our data, or improve predictive modeling. GIS is being used today by statisticians to visualize and explore data and conduct spatial analysis, including the integration of machine learning models. They're also using GIS in the area of big data analytics and data sciences.

What is GIS?

A geographic information system (GIS) is a system that creates, manages, analyzes, and maps all types of data. GIS connects data to a map, integrating location data (where things are) with all types of descriptive information (what things are like there). This provides a foundation for mapping and analysis that is used in science and almost every industry. GIS helps users understand patterns, relationships, and geographic context. The benefits include improved communication and efficiency as well as better management and decision making

Address:

Health Services Academy Park Road, Chakshahzad, Islamabad Phone: 051-9255590-4 Mobile 03468563483, 03218580007