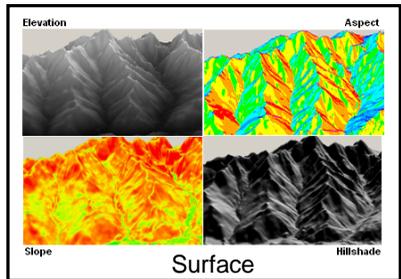


Advances in GIS

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Geographic Information System (GIS) is a technology to create, analyze and present spatial data. GIS has catalyzed the way spatial data is perceived by people along with Remote Sensing and GPS. As Geospatial Technologies continue to evolve, GIS is becoming increasingly pervasive as evident in the rapid number of location-based applications developed for mobile devices.



Network Analysis

GIS tools are used for a variety of purposes ranging from physical planning, vulnerability and risk analysis, suitability analysis, accessibility studies, to spatial inequalities studies. The last decade witnessed a tremendous increase in availability of GIS data through web geoportals and open source tools to analyze this data. New GIS approaches and techniques have also emerged in the field of the social sciences allowing one to incorporate the spatial dimension in modelling & analysis. Moreover, thanks to open source initiatives, now there are a variety of data sources and tools available that help users in solving spatial research problems. Advances in GIS have opened avenues for graphic 3D geo-visualization, complex spatio-temporal modeling, near real-time prediction and event-monitoring, surface and network analysis.

Training Focus:

The aim of the training is to unveil the advances in GIS through lectures, demonstrations and hands-on that helps the participants gain understanding to deal with spatial data using GIS tools for various applications.

The program covers exploratory spatial data analysis techniques (ESDA), geostatistics, surface interpolation and analysis, geoprocessing, network analysis, spatial modeling, mobile GIS, decision support systems, GIS development using open source tools, GIS case-studies, with two-day hands-on session on web geoportals like India WRIS & Bhuvan including mash-ups & API.



Hand-Held GPS & Mobile GIS

Who Can Apply?

GIS users working in Government/PSUs/Private/NGOs/Academic Institutions with Bachelors Degree who wish to broaden their understanding in GIS Technologies can apply under sponsorship of their organization/institutions. **Candidates must have a prior exposure in using GIS software tools and data for their work.**