

GLOBAL GIS & RS LEARNING CENTER

Serampore, Hooghly, West Bengal - 712 201

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Course Duration	Class Timing	Course Price
10 months [2 days/week]	Theory classes: 1.30 hrs each; Practical classes: 2 hrs each	6000/-

Syllabus :

Topics (GIS) :

1. Introduction to GIS, definition of GIS, Components of GIS, functions and advantages of GIS.
2. Spatial data model and process of GIS: Dimensions of GIS data, Conceptual (field/object) and logical (raster/vector/object oriented), Data sources, data capture (raster/vector/attribute), Raster and vector data processing.
3. Arc-GIS Interface & plugins concepts, raster styling, Georeferencing image to image and image to ground.
4. Digitization, Vector data creation, editing, and manipulation, attribute creation and data entering, import/export shapefile to kml.
5. Classification: Supervised & Unsupervised(landuse and land cover), image interpretation.
6. Different type of ArcGIS Tools, Overlay analysis, buffer preparation.
7. Different types of network analysis, Different types of project preparation, map layout preparation.
8. Convert CSV/excel file to vector layer, coordinate extraction, join external excel file with vector layer, coordinate transformation etc.

Syllabus :

Topics (Remote Sensing) :

1. Concept on remote sensing, platforms and sensor characteristics, remote sensing platforms, passive/active, orbits, swath, nadir, sensor resolutions
2. Erdas-Imagine Geo-referencing image to image and image to ground, Supervised & Unsupervised(landuse and land cover), image interpretation

Syllabus :

Topics (Google Earth) :

1. Concept on Google Earth, different tools are uses of Google Earth.
2. Created point, Line and close polygon AOI.
3. GPS points rectified the Google Earth and Created Survey data and modified the Survey Data,
4. Created .kml and .kmz file.

Syllabus :

Topics (GPS) :

1. Introduction to GPS, functions and advantages of GPS
2. Waypoint and track collection from GPS receivers and exporting to GIS database
3. Area and length calculations

Class Venue : Hooghly (Serampore), Nadia - Krishnanagar (Badkulla)