

# **GLOBAL GIS & RS LEARNING CENTER**

Serampore, Hooghly, West Bengal - 712 201

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<b>Course Duration</b>	<b>Class Timing</b>	<b>Course Price</b>
4 months [2 days/week]	<b>Theory classes:</b> 1.30 hrs each; <b>Practical classes:</b> 2 hrs each	3000/-

## ***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

## ***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 collection from GPS receivers and exporting to GIS database
3. Area and length calculations

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