

# **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>
6 months [2 days/week]	<b>Theory classes:</b> 1.30 hrs each; <b>Practical classes:</b> 2 hrs each	2500/-

## ***Syllabus :***

### ***Topics (GIS) :***

1. Introduction to GIS, definition of GIS, Components of GIS, functions and advantages of GIS
2. QGIS Interface & plugins concepts, raster styling, Georeferencing image to image and image to ground
3. Digitization, Vector data creation, editing, and manipulation, attribute creation and data entering, import/export shapefile to kml.
4. Convert CSV/excel file to vector layer, coordinate extraction, join external excel file with vector layer, coordinate transformation etc.
5. Classification: Supervised & Unsupervised(landuse and land cover), image interpretation
6. Digital Elevation Model, NDVI, Layer stack, Subset, Mosaic

## ***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)**