Task 1B: Geo referencing aerial image using QGIS

blogpost-style

Saail e-Yantra Staff 12d

Task 1B Geo referencing aerial image using QGIS

Aim:

The aim of this task is to understand GIS concepts and getting hands on QGIS software for Geo spatial analysis. In this task you will be generating a georeferenced image using Georeferencer tool in QGIS.

Resources:

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1. **Introduction to GIS**
2. **QGIS software interface**
3. **Importing raster (image) data to QGIS**
4. **Changing Reference system of layers imported**
5. **Using Georeferencer tool in QGIS**
6. **Adding openstreetmap and google satellite image in QGIS**

Problem Statement:

- The task is for getting familiar with QGIS software for basic analysis that will be needed in this theme.
- Download the **satellite image** and the **aerial image** .

> Note: Satellite images are very large in size and covers a wide area. Provided satellite image is a high resolution satellite image with spatial resolution of 30cm(i.e. 1 pixel represents 30cm in ground)

- Open the satellite image in QGIS software.
- Select EPSG4326 referencing system.
- Open the georeferencer tool in QGIS. Add the aerial image to to be georeferenced.
- Mark proper GCPs of the both actual image and reference by zooming and matching features.
- Create and save the georeferenced image created by using georeferencer tool.

Live video session :

28th September 2022(Wednesday), 11.00hrs to 12.00hrs (IST)
Meet link : **Cisco Webex Meetings**

Submission instructions

Submission instructions will be posted here soon

Deadline

Deadline for submitting Task 1B is 14th October 23:59 hrs

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Task 1A : Building a Control System

CLOSED ON SEP 24