

# Report on Drone Survey Workshop

DEPARTMENT OF GEOGRAPHY

NOVEMBER 2025

**Name :** Workshop on Drone survey

**Organized by:** Department of Geography in collaboration with SAIARD

**Resource persons:** Mr. Hafiz AL Asad, Executive Director, School of Drone Technology, RSAIGST

Mr. Souvik Das, GIS Executive, School of Drone Technology, RSAIGST

**Date:** 22<sup>nd</sup> NOVEMBER 2025

**Venue :** Shri Shikshayatan College ground

**Number of participants:**

Students :42

Faculty: 3

**Brief description of the activity:** A drone survey uses unmanned aerial vehicles (UAVs) equipped with sensors to capture geospatial data, creating precise maps and 3D models. This is done by flying the drone over an area to take overlapping photos or lidar scans, which are then processed to generate accurate, geo-referenced outputs .

**Outcome:** Students got an idea of **Data capture:** Drones equipped with cameras (RGB, multispectral) or LiDAR sensors fly over the survey area. Each image or scan is tagged with precise geographic coordinates captured by the drone's onboard Global Navigation Satellite System (GNSS). **Processing:** The collected data is sent to a computer for processing with photogrammetry software. This software "stitches" the images together or processes the scan data to create a 3D model or map of the site.





