Laboratory name: Remote Sensing Laboratory

Remote Sensing Laboratory is a specialized facility where remote sensing data is processed, and analyzed. These labs are essential in fields like environmental monitoring, geospatial analysis, and research. Key activities include image correction, enhancement, classification, and the creation of Digital Elevation Models (DEMs).

- 1. Geomatica by PCI Geomatics V8.1.0 is a versatile software suite used for remote sensing, photogrammetry, and GIS applications. It processes satellite and aerial imagery for tasks like image enhancement, land cover detection. The classification, and change software supports orthorectification, DEM creation, and 3D modeling, essential for terrain analysis and urban planning. Geomatica integrates various geospatial data types for comprehensive spatial analysis, thematic mapping, and environmental monitoring, including climate change and disaster management. In agriculture, it aids precision farming by analyzing crop health and soil conditions, making it a powerful tool across multiple industries.
- 2. ArcMap 10.7, part of Esri's ArcGIS Desktop, is a key GIS tool for mapping, spatial analysis, and data management. It allows users to create detailed maps with customizable layers, symbology, and labels, making it essential for visualizing spatial data. ArcMap 10.7 also offers powerful spatial analysis tools, such as overlay, proximity, and surface analysis, helping users derive meaningful insights from geospatial data. Widely used in fields like urban planning, environmental monitoring, and resource management, ArcMap 10.7 is crucial for professionals requiring advanced geospatial analysis and mapping capabilities.



