GEOGRAPHIC INFORMATION SYSTEMS LAB

Course Code: 15CE2109   **L   P   C**
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Course Outcomes: At the end of the course, the student will be able to:
CO1: Compile a rectification / geo-referencing of scanned images by assigning latitudes and longitudes or x, y coordinates.
CO2: Discriminate between spatial and non spatial data and working with spatial data.
CO3: Create mosaic of images / toposheets / aerial photographs and preparation of thematic maps by process of digitization.
CO4: Compute and manipulate with non spatial data and spatial data.
CO5: Transform digital image processing techniques for satellite images.

LIST OF EXERCISES
1. Opening and Importing of an Image.
2. Rectification of Images.
3. Subset by Inquire Box method.
4. Subset by AOI method.
5. Mosaic of Images.
6. Digitization
7. Attribute data entry and manipulation
8. Supervised Classification
9. Unsupervised classification.
10. Developing Digital Elevation model, Draping of an image.
11. Data analysis – Reclassification, Overlay and Buffer.
12. Map generation with Patterns and Legends.

GIS SOFTWARE:
Arc GIS / ERDAS /Mapinfo / ILWIS