GEOGRAPHICAL INFORMATION SYSTEM LAB

I Semester

Course Code: 19CE2104

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Course Outcomes:
At the end of the course, the student will be able to:

CO1 Compile 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 Create and analyse 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: QGIS/ ERDAS /Mapinfo / ILWIS / Arc GIS