SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN :: BHIMAVARAM (AUTONOMOUS)

DEPARTMENT OF CIVIL ENGINEERING

Remote sensing And GIS LAB

Labincharge: Dr. P. Sridhar

Objective:

Understand the process of digitization, creation of thematic maps from various maps, learn to apply GIS Software to problems of real world.

Course Outcomes

CO1: Work Comfortably on GIS Software

CO2: Digitize and create thematic map and extract features

CO3: Develop digital elevation model.

CO4: Learn GIS analysis

LIST of experiments

1. Identification of geological, geomorphologic and cultural forms

2. Water resources studies

3. Environmental Impact Assessment

4. The student should select theme for visual interpretation and prepare a practical report as one of the inputs to the practical examination assessment

5. Digitization – point, Line, Polygon and surface data

6. Building topology – measuring distance and area

7. Adding attribute data – querying on attribute data

8. On Screen digitization – Data conversion – vector to raster, Raster to vector

9. Generation of DEM from contours, spot heights, Arc hydro

10. Vector analysis – buffering, Overlay and Network analysis

11. Raster analysis – Measurement – Arthamatic overlaying, Logical Overlaying

LIST of software's available in the lab

Sno	Software name	Total Cost
1	Auto CAD	AICTE website
2	STADDPRO	4,95,170. 00
3	ARCGIS 10.3	5,37,750 . 00
4	QGIS (Quantum GIS)	Open source
	Total cost	**10,32, 920.00**