

Course Objectives

To train students in Arc-view GIS software, its uses, analysis and application in practical exercises.

Course Outline

1. Introduction to Arc-View GIS

- Introduction to the software
- Creating map
- Adding tabular data to map
- Adding addresses and other location to map.

2. Symbolization of Data

- Symbolizing the data
- Labelling maps with text and graphics
- Creating new data
- Choosing map projection

3. Layout and Printing Maps

- Getting the attributes of features
- Feature with particular attributes
- Features near other feature
- Feature inside polygons
- Features intersect other features
- Working with the features

4. Aggregating Data

- Creating and editing spatial data using a digitizing tablet
- Using other types of data, working with images, working with other drawings.

5. Analysis of Existing Spatial Data

- Checking pixel information, display of spatial data.

Recommended Books

1. Aronoff, S. (2005) "Remote Sensing for GIS Managers", ESRI Press, New York.
2. Dent, D. B. (2002) "Cartography with Arc View GIS Software", McGraw-Hill, New York.
3. Environmental Systems Research Institute (ESRI) (1999) "Arc-view (version 3.1) user's guide book", Environmental Systems Research Institute, Inc. New York.
4. ESRI (1996) "Arc view spatial analyst: advanced spatial analysis using raster and vector data", Environmental Systems Research Institute, Inc. New York
5. ESRI (1999) "Arc view (version 3.1) Application user guide book", Environmental Systems Research Institute, Inc. New York.
6. ESRI (1999) "Arc-view 3D Analyst application user's guide-book", Environmental Systems Research Institute, Inc. New York.
7. ESRI (1999) "Arc-view Network Analyst Application user guide book", Environmental Systems Research Institute, Inc. New York.
8. ESRI (1999) "Arc-view spatial data analyst application user guide book", Environmental Systems Research Institute, Inc. New York.
9. Maginr, D. J. (1991) "Geographic Information System", Longman, London.