Module 6: Query and analysis

This module will cover the topics of, spatial relationship between features, querying and analyzing features using spatial relationships etc. The session will be completed with hands on exercises.

Module 7: Presenting Data in ArcView map layout

This module will covered the topics of presenting data and creating maps using ArcView. The session will also cover the planning map design and layout, visual balances and exporting maps into graphics format. The session will be completed with number of hands on exercises.

Methodology:

The course will comprise lectures, hands on exercises case studies and group discussions. It is based on the principles of interactive learning in that participants are expected to share their experience and knowledge during the course. The course will be conducted with intensive lectures and user-friendly practices session. Well-experienced trainer and professionals will provide the lecturers and conduct the practical session.

Benefits or Takeaway from the Course:

Participants will be able to learn about the concept of GIS and its application. They will gain practical experiences of using ArcView software.

Who Should Attend:

This course is for those who are new in GIS. Professional who is willing work with GIS, University Student and as well as interested persons can also attend the course.

Prerequisites:

Participants should know how to use Windows -based software
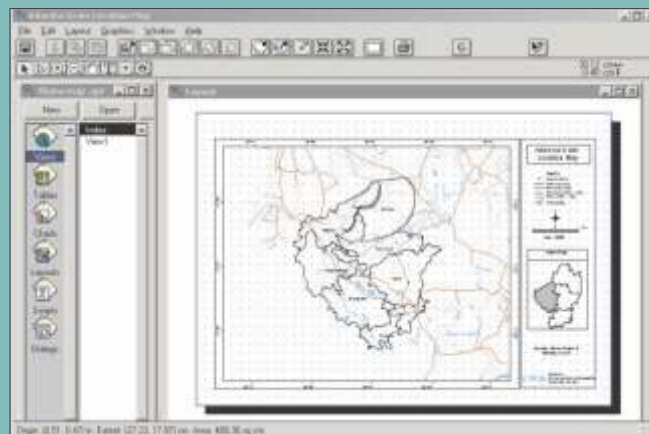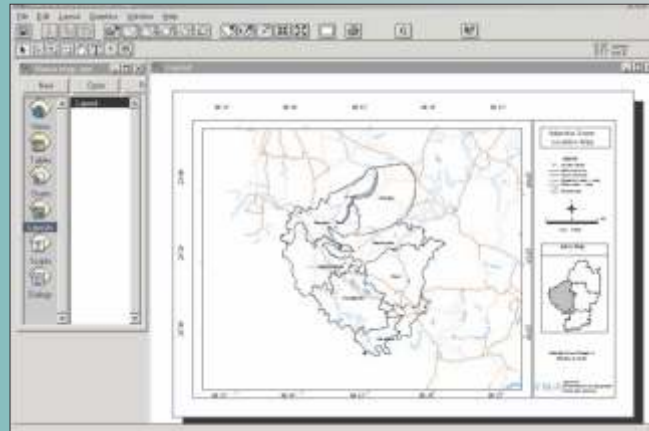
Course Information:

Course Date: 10 September - 23 September 2006

(Evening Course: During working day: 6:00 pm - 8:30 pm

and Saturday: 4:00 pm - 8:00 pm)

Tuition Fees:

Tk. 8500.00 per participant (inclusive of tuition fees, training materials and refreshment)

Contacts:

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CΞGIS

Center for Environmental and Geographic Information Services
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A training course on

10 September - 23 September 2006
(Evening Course)

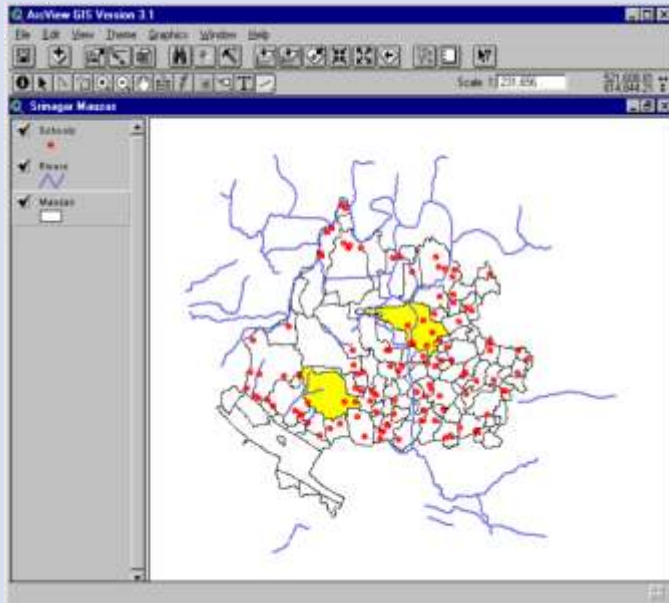# Introduction to Desktop GIS (ArcView)

Introduction:

The Center for Environmental and Geographic Information Service (CEGIS) is a Public Trust under The Ministry of Water Resources

The Center for Environmental and Geographic Information Service (CEGIS) has been training individuals to use GIS technologies since 1991. In 1995, CEGIS launched the ArcInfo Learning Center that is recognized as one of the few ESRI certified centers in the regions and the only one in Bangladesh. CEGIS offers certificate course on ArcView. Highly experienced trainers including who have many years of practical experience in the field will conduct the course.

Course Objectives:

- ➢ The course objectives are to provide introductory knowledge on GIS using ArcView software:
- ➢ to become familiar with the various components and functions of the Desktop GIS software;
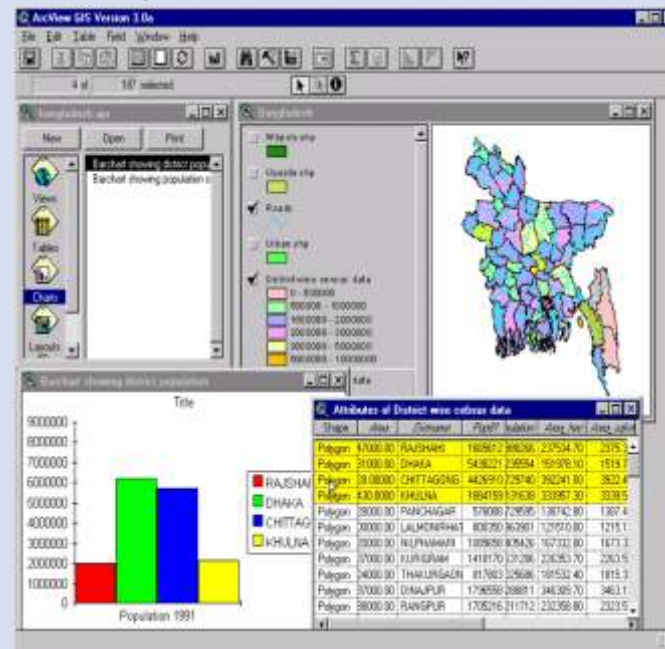- ➢ to develop skills to operate the buttons, tools and menus needed in ArcView.

Course Description:

This course covers fundamental GIS concepts and functions of ArcView Desktop GIS software. In this course, participants will be introduced to the basic concepts of desktop GIS software

with an easy to use graphical user interface (GUI) and a set of tools for exploring and presenting information as presentation-quality maps. The participant will also be able to learn how to use different components of ArcView (View, Table, Chart and Layout etc.) and explore how these applications perform concurrently to provide complete GIS solutions.

This course focuses on GIS data layers query, manipulate tabular data, edit spatial and attribute data and data representation in terms of maps Following topics will be covered under this course:

- ➢ To develop skills to operate the buttons, tools and menu needed in ArcView.
- ➢ Creating views and themes from data sources,
- ➢ Working with themes, working with tables,
- ➢ Display of data,
- ➢ Querying data, types of relationships, printing layouts.
- ➢ Preparing maps

Special Features of the Course:

1. Discussion with Leading Managers or GIS Professionals

During the course, participants will have the opportunity to discuss with organizational leaders and professionals who

have working experience on the application of ArcGIS of in both the public and private sectors, in the region.

2. Special Study Projects:

Participants will be formed into Project Teams at the start of the course. They will be assigned projects on ArcView use/application, which all members of the team will be expected to contribute. Every member will be expected to make a presentation on his own contribution to his team's project, on the final session

Course Content:

The course is containing with several modules, which will be covered during the course period

Module 1: Introduction to Desktop GIS Concepts

This module will cover concept of GIS, application of GIS in different sectors, concept of ArcView and different component of ArcView. The session will be completed with hands on exercises.

Module 2:Creating Views and Themes

This module will cover how to create view and themes, how to add the themes in a view from different data sources and setting map projections. The session will be completed with hands on exercises.

Module 3: Working with themes

This module will cover the topics of working with themes, setting properties of themes, different techniques of displaying spatial data, symbolizing data and classifying data etc. The session will be completed with hands on exercises.

Module 4: Working with tables

This module will cover the topics of working with tables, creating, editing and updating tables, establish relationship with tables and summarize tables etc. The session will be completed with hands on exercises.

Module 5: Creating and editing spatial data

This module will cover the topics of, concept of shape file, creating and editing spatial dataetc. The session will be completed with hands on exercises.