Data Dissemination and GIS

Introduction

Even though Geographical Information Systems (GIS) has been used in Sri Lanka for some time and the word “GIS” is not new to the country. There is a shortage of personal who are trained to use this technique in various sectors of national importance. GIS is rapidly evolving to become standard tool, influencing decision making in various sectors.

Course module on “Data Dissemination and GIS”, provide the best comprehensive data dissemination knowledge by using GIS to the DCS technical staff.

At the end of the course, the participants would be well aware of the basic methods of GIS on Data dissemination, its potential applications in various subjects of DCS (Planning Census or Surveys, Monitoring, Geographical Data analysis, Data Series Comparisons, Analytical Researches and Resource Management). This short course is designed to provide the basic theoretical concepts and comprehensive hands-on training associated with GIS software.

Objectives

To provide basic theoretical knowledge with comprehensive hands-on training in the use of Geographical Information Systems (GIS),

- To understand the basic concept of GIS including functions, systems and usefulness of GIS
- To be familiarize with GIS tools, functions and its operations
- To explore the methods of data acquisition, processing, transformation, spatial analysis, storage and data output.

Course Contents

- Introduction, definition and overview of Geographical Information Systems (GIS)
- Scope and Application areas, Purpose and benefits of GIS, Functional elements of GIS
- Getting started with Maps and Data (Exploring Arc Map and Arc Catalogue, Layers, Data Frames, Tools)
- Displaying Data (Symbols Categorizing, Proportionating, Charts, Labels, Annotations)
- Getting Information about features (find, Selecting, Joining, Summarizing)
- Aggregating Data with the Geo-processing wizard (Dissolving, Merging, Clipping, Spatial Joining, Buffering)
- Presenting Data (Lay outs, Customizing)
- Applications of GIS in various disciplines