

# UNIT I

## GIS

### Chapter 1: A Gentle Introduction to GIS

#### The nature of GIS

##### **Fundamental Observations:**

- Many aspects of our daily lives and our environment are constantly changing, and not always for the better. Some of these changes appear to have natural causes (e.g. volcanic eruptions, meteorite impacts), while others are the result of human modification of the environment (e.g. land use changes or land reclamation from the sea).
- There are also a large number of global changes for which the cause remains unclear; these include global warming, landslides and soil erosion.

##### **Defining GIS:**

A GIS is a computer-based system that provides the following four sets of capabilities to handle georeferenced data:

1. Data capture and preparation
  2. Data management, including storage and maintenance
  3. Data manipulation and analysis
  4. Data presentation
- This implies that a GIS user can expect support from the system to enter (geo-referenced) data, to analyse it in various ways, and to produce presentations (including maps and other types) from the data.
  - This should include support for various kinds of coordinate systems and transformations between them, options for analysis of the georeferenced data.

##### **GISystem**

- Geographic Information System (GISystem) is the most used concept of GIS.
- GISystem as a computerized system designed to dealing with the collection, storage, manipulation, analysis, visualization and displaying geographic information.

# Gis Practical Manual Mumbai University

**Jerzy Bański**



## **Gis Practical Manual Mumbai University:**

## **Gis Practical Manual Mumbai University** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Gis Practical Manual Mumbai University**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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