COMPONENT OF GIS
(T2-LEC-1)

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Learning Objective: To understand different elements or components of GIS
Learning Outcome: Get familiarized with different components dealt in GIS

INTODUCTION

GIS is a set of tools which perform different functions for integration of *spatial* and *attribute* data in GIS platform:

➢ **Data Acquisition and Testing:**

➢ **Data Storing and Management**

➢ **Data Retrieval & Representation**

➢   **Data Transformation**
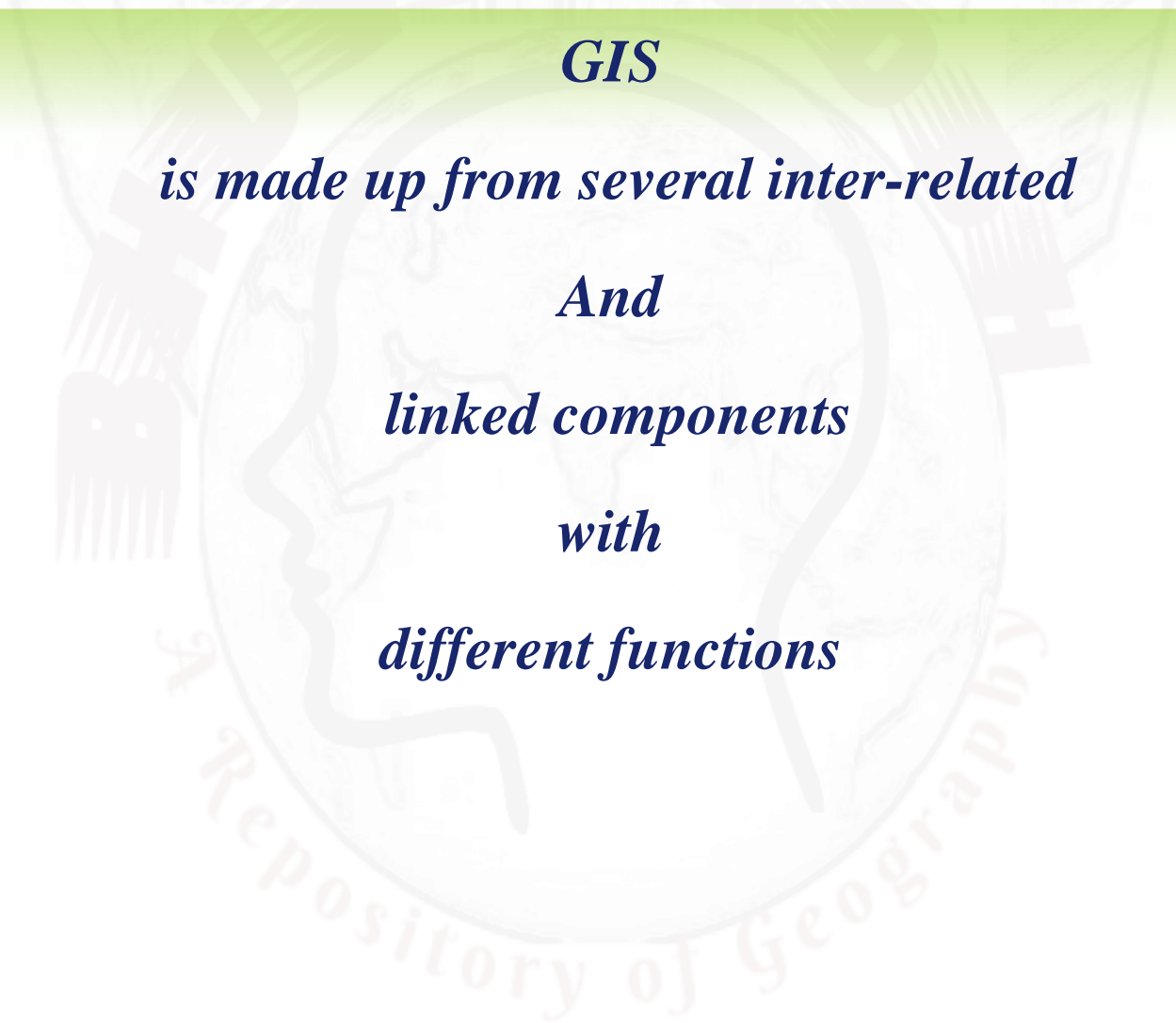
➢ **Interaction with Users**

COMPONENT OF GIS

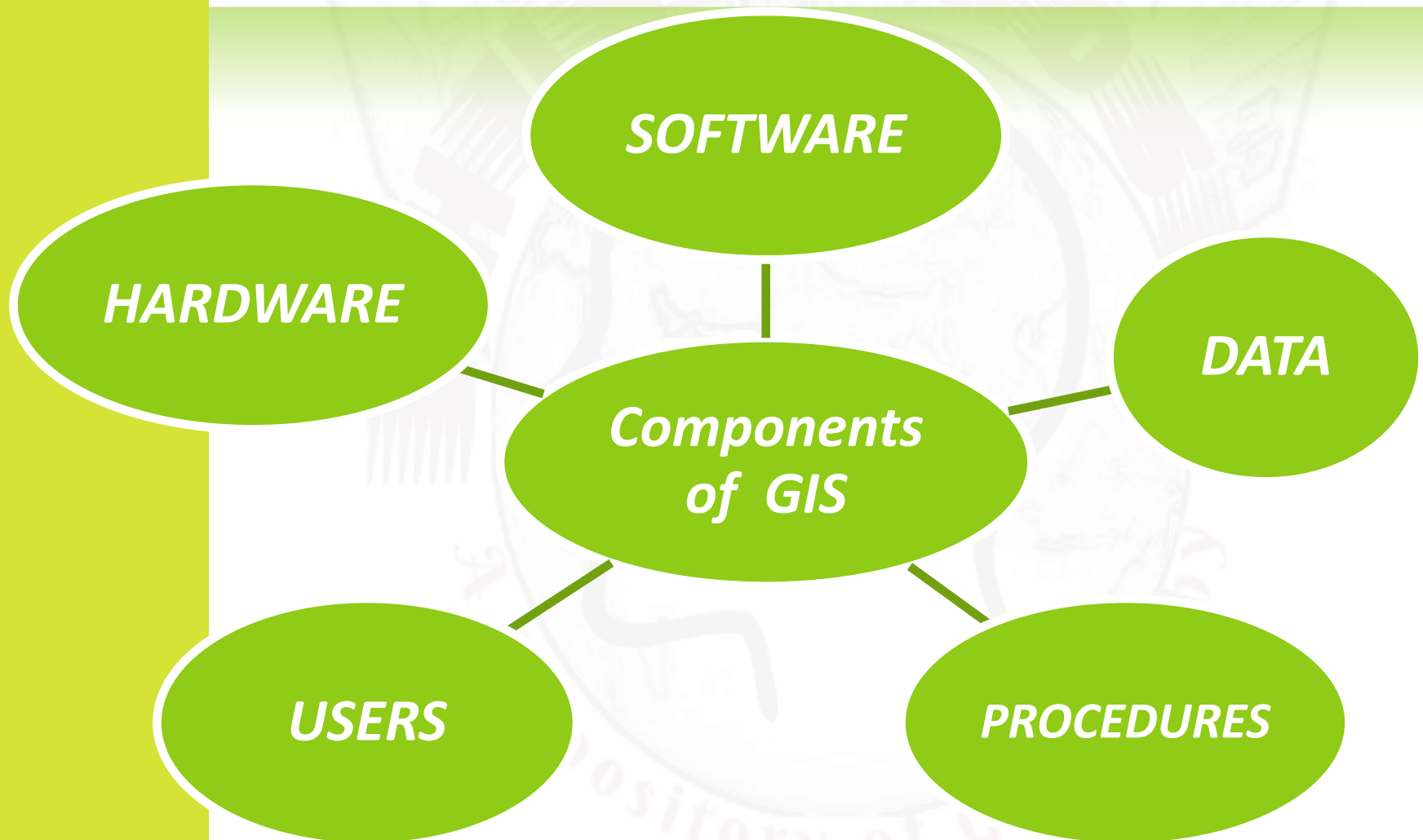*GIS*

is made up from several inter-related

And

linked components

with

different functions

MAJOR COMPONENTS OF GIS...

1.HARDWARE

- Computer hardware is a system on which the GIS software runs.
- Computer hardware is used to obtain inputs, processing, outputs and storage data.

2.SOFTWARE

- GIS software provides the functions and tools that are necessary to store, process, analyze, modeling and display of Geospatial data.
- Software's are classified by its capability:
  - Input Module
  - Editing Module
  - Modeling Module
  - Analysis Module

3.DATAWARE

- A data ware are the set of data that are used in GIS software for storing, manipulating, analyzing, displaying and retrieval in different forms of information.

Major components of GIS...

PROCEDURES

- A computer system for GIS is work with set of procedures.
- It includes data capturing, storing, processing, analyzing, modeling and displaying of geospatial data .

LIVE WARE

- There is no GIS exists in isolation of the People or Liveware.
- The technicians & the users;

MODEL QUESTIONS

◎ What is GIS? Discuss the major component or elements of GIS.

◎ GIS is a set tools which perform different function in a computer based integrated system? Explain above statement.

◎ Write short notes on elements of GIS.

Suggested Readings

- Albert , C.P.Lo. & Yeung. K.W., (2007) Concept and techniques of Geographic information system ; PHI Learning PVT Ltd. New Delhi

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