

GEO : A Computer Assisted Instruction on Earth Science

SEEROO

A Special Problem

Presented to

the Department of Mathematical Sciences and Computer Studies

De La Salle University - Dasmariñas

Dasmariñas, Cavite

In Partial Fulfillment

of the Requirements for the Degree

Bachelor of Science in Computer Science

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ABSTRACT

Name of Institution : De La Salle University - Dasmariñas

Address : Dasmariñas, Cavite

TITLE : GEO : A Computer Assisted Instruction on Earth Science.

AUTHOR/PROPONENT : Edmon Lozada Torres, BS Computer Science

DATE STARTED : 19 December 1996 **DATE COMPLETED :** 19 February 1997

OBJECTIVES OF THE STUDY :

A. GENERAL : To be able to generate a program, using the principle of CAI, that will assist students of Earth Science in their study of the subject

B. SPECIFIC :

Specifically, the objectives of the study were :

1. To be able to develop a CAI software that will supplement the existing reading materials and related CAI application.
2. To use graphics and animation in the software effectively that will help increase the interest of the students in the study of the subject.
3. To maximize the power and the resources of Visual Basic as a tool in implementing the study.
4. To apply a new teaching method using the computer as a tool in teaching Earth Science effectively and efficiently.

SCOPE AND COVERAGE :

GEO provides a brief discussion of the different heavenly bodies, namely the Sun, the Moon, the planets in the Solar System, and the Earth. Its emphasis of discussion is on the three major parts of the Earth namely : the Lithosphere, the solid part; the Hydrosphere, the liquid part; and the Atmosphere, the gaseous part. It also covers the layers of the atmosphere; from the forms of water to the features of the sea; from the history of the earth to the volcanic eruption.

METHODOLOGY :

In the study, the method used was the Systems Approach. The proponent also used the descriptive type of research method to gather the data. Researches had been done to come up with the needed information to be implemented. All the information are obtained through interview and research.

In the implementation of the study, the author used the tutorial approach as the basis for the design.

OUTPUT OF THE STUDY :

GEO provides the basic and pertinent information discussed in the Earth Science subject and will serve as an over view of the subject matter to the students. The system can be used as an alternative tool or a reference in the absence of books and other text materials. The system allows the user to access the program freely and contains discussion suitable to the level of the students. It will be useful not only to students as well as to teachers in the teaching-learning process.

CONCLUSIONS :

The proponent concluded that animation and graphics are the key factors in catching the attention and educating the students of the present time. It is a big factor to use computers as a tool in educating the students of today's society. With the proper guidance students can be well oriented with the subject. The combination of the traditional way of teaching and the implementation of CAI will help a lot in the development of a child's education.

RECOMMENDATION :

To make the program more pleasing and attractive, the proponent recommend the use of sound and other multi-media support utilities. Sounds will make the user understand the subject matter better.