

ABSTRACT

NAME OF INSTITUTION: De La Salle University - Dasmariñas

ADDRESS: Dasmariñas, Cavite

TITLE: A Computer Assisted Instruction On Graph Theory

AUTHOR: Cesar Sabas Rivera - II

FUNDING SOURCE: Parents **COST:** P 5,000

DATE STARTED: December, 1997 **DATE COMPLETED:** January, 1998

OBJECTIVES OF THE STUDY:

A. GENERAL

To develop a computer assisted instruction on graph theory using Visual Basic 4.0.

B. SPECIFIC

1. To develop a CAI software on graph theory which is easy to understand and suitable to the capabilities of the students.
2. To use graphics and animation in presenting instructions.

SCOPE AND COVERAGE:

The topics discussed includes chapters 1 to 5 of MATH151 (Graph Theory) course outline.

METHODOLOGY:

The method used in developing the software is the prototyping model.

OUTPUT OF THE STUDY:

CAI on Graph Theory serves as an additional tool for learning which can be used by students taking up graph theory. The lessons are presented in a manner suitable to students. Animation and graphics are used to enhance learning.

CONCLUSIONS:

Computer aided instruction does not replace but rather supplement the usual classroom instruction. Graphics and animation complements instruction.

RECOMMENDATIONS:

The author recommends that more examples, sounds, and animations be added in the software to improve its effectiveness. A study of digraphs would also complete the study of graph theory.