COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

COMPUTER AIDED INSTRUCTION IN C - PROGRAMMING LANGUAGE FOR CCIT OF RAMON MAGSAYSAY TECHNOLOGICAL UNIVERSITY

A Thesis Presented to the Faculty of

College of Communication and Information Technology

RMTU – Main Campus, Iba, Zambales

In Partial Fulfillment of the Requirements for The Degree Of

Bachelor of Science in Computer Science

By:

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COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

CERTIFICATION

This thesis entitled **"CAI in C Programming Language"** prepared and submitted by **Brando E. Madreo and Dan Rey A. Aseron** in partial fulfillment of the requirements for the degree **Bachelor of Science in Computer Science** has been examined and recommended for Oral Examination.

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ABSTRACT

Title	:	**COMPUTER AIDED INTRUCTIONS IN C PROGRAMMING LANGUAGE FOR CCIT OF RAMON MAGSAYSAY TECHNOLOGICAL UNIVERSITY**
Researchers	:	**BRANDO E. MADREO**
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College	:	**COLLEGE OF COMMUNICATION IN INFORMATION TECHNOLOGY**
Institution	:	**RAMON MAGSAYSAY TECHNOLOGICAL UNIVERSITY**
Degree	:	**BACHELOR OF SCIENCE IN COMPUTER SCIENCE**
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Computer Assisted Instruction (CAI) A self-learning technique, usually offline/online, involving interaction of the student with programmed instructional materials. Computer-assisted instruction (CAI) is an interactive instructional technique whereby a computer is used to present the instructional material and monitor the learning that takes place. CAI uses a combination of text, graphics, sound and video in enhancing the learning process. The computer has many

purposes in the classroom, and it can be utilized to help a student in all areas of the curriculum.

The study focused on the basic operations as alternative tool in the teaching C-Programming Language. The application should register his name before the start of the application.

The researchers aimed to determine the level of effectiveness of the developed Computer-Aided Instruction in C-Programming Language for CCIT of Ramon Magsaysay Technological University.

The researchers used of descriptive research to carefully study the present condition between the nature of the procedures used and problems that exists in methods of teaching. Descriptive method includes gathering of data, tabulation, interpretation and evaluation of what have been describe in the questionnaire without analyzing relationships between variables. This includes the research methods used, research locale, data gathering instrument, respondents, and the appropriate statistical treatment.

Part of the study is it sought to determine the profile of the respondents.

Based on the findings obtained in the study, ten (10) or 10 percent of the respondents were teachers. Ninety (90) or 90 percent of the respondents were students.

Respondents' perception on the effectiveness of Developed Computer Aided Instruction in Teaching C Programming Language in terms of Learning Content. "The system provides an easy and simple instruction that can easily followed by the

user." Perceived as Very Effective with a weighted mean of 4.10. "Provides a learning episode based on the ability of the student." Perceived as Very Effective with a weighted mean of 4.20. "The exercises are order in sequential manner based in the ability and performance of the student." Perceived as Very Effective with a weighted mean of 3.90. "Efficiency in retrieval of letters and information" perceived as Very Effective with a weighted mean of 4.30. "The system has provided a learning content that are recent and updated. "perceived as Very Effective with a weighted mean of 4.30. "The system has the capability to modify the learning content." Perceived as Very Effective with a weighted mean of 3.90. The average weighted mean of the Effectiveness of the Current Instruction in C Programming Language in Terms of Learning Content is 4.08 interpreted as Very Effective.

Respondent's perception on the effectiveness of the Developed Computer Aided Instruction in Teaching C Programming Language in terms of Operational and Manipulative Mechanism. "Provides easy to manage in the operation of computer" perceived as very effective with a weighted mean of 4.10, "Easy access and can be operated at the laboratory." Perceived as very effective with a weighted mean of 4.40. "Provides an accurate data and information on prescribe activity and test analysis." Perceived as very effective with a weighted mean of 4.20. The average weighted mean of the respondent's perception on the effectiveness of the Current Instruction in C Programming Language in terms of operational and manipulative mechanism is 4.23 interpreted as very effective.

Respondent's perception on the effectiveness of the Developed Computer Aided Instruction in Teaching C Programming Language in terms of Aesthetic Value. "Text are readable and can be visualize respectively." Perceived as very effective with a weighted mean of 4.30. "The application provides more effective and more efficient means in accomplishing." Perceived as very effective with a weighted mean of 4.30. "Design such as font color, font and other appropriate for the user." Perceived as very effective with a weighted mean of 4.40.

The average weighted mean of the respondent's perception on the effectiveness of the Current Instruction in C Programming Language in Terms of Aesthetic Value is 4.33 interpreted as very effective.