

DEVELOPMENT OF E-LEARNING FOR
ELEMENTARY STATISTICS

Thesis

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DEVELOPMENT OF E-LEARNING FOR ELEMENTARY STATISTICS

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ABSTRACT

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The E-learning system in Elementary Statistics was developed to provide an aid of teaching the subject Elementary Statistics and online education for the students who are enrolled on the subject. The study will help the students in learning process by giving another way gaining knowledge.

The researcher used the Rational Unified Process as a paradigm in the development of the system. The RUP consists of the following phases: Inception, Elaboration, Construction and lastly the Transition. Effectiveness of the software in delivering the subject was evaluated through the use of acceptance testing; one hundred thirty nine students, three instructors and administrator are the three clients that evaluated to check its functionalism.

The E-learning system was developed under XAMPP, wherein Apache will be used as the server, MySQL for the database and PHP as the scripting language.

The system was evaluated by the respondents based on the given criteria: Accuracy, Consistency, Correctness, Reliability, User Interaction and Technical Aspects of the software and materials. Evaluators were composed of Students taking Elementary Statistics, Instructors and Faculty Staff of Physical Science Department. The results of the evaluation show that the system was acceptable to the users.

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INTRODUCTION

Today's innovation of technology is always expected to arise within our daily lives, from the traditional to electronic. Likewise, in education sector, E-learning is an advance method for improving the traditional face-to-face lectures and courses. It may not replace the usual method of discussing the course but it will serve as an alternative method of learning. E-learning is a means of education that incorporates self-motivation, communication, efficiency, and technology. Because there is limited social interaction, students must keep themselves motivated. E-learning is efficient as it eliminates distances and subsequent commutes (Comerchero, 2006).

Distance learning in the Philippines is offered by different schools like Asian Institute for Distance Education, CAP College Foundation, Pamantasan ng Lungsod ng Maynila, Open University, Polytechnic University of the Philippines, Open University, South East Asia Interdisciplinary Development Institute and University of the Philippines, Open University and due to distance communication, it is now possible for the students to follow the trends of education. Together with other