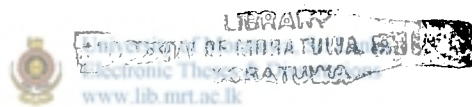


University of Moratuwa
Sri Lanka

THE USAGE OF WEB MEDIUM FOR
EFFECTIVE STATISTICS EDUCATION



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Master of Science in Operational Research

Department of Mathematics
January 2005



R.I.P. Wickramasinghe

University of Moratuwa

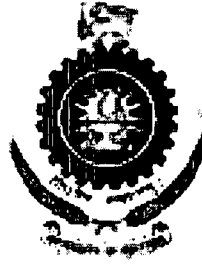


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This thesis was submitted to the department
of Mathematics University of Moratuwa is
partial fulfillment of the requirements for the
degree of Master of Science

Department of Mathematics
University of Moratuwa
Sri Lanka

January 2005

Declaration

I hereby certify that this project report is entirely my own work and that it has never been submitted nor is currently being submitted for any other degree programme.

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Signature:

Abstract

The web media has become one of the most effective communication media in the world at the moment. Learning/teaching environment can be effectively carried out using the web media, as there are so many medias can be integrated into the web. As statistics is a subject, which contains mathematics, and concepts, which are little bit difficult to visualize, the web can be used effectively for statistics education.

The idea of this thesis is to conduct a research activity about statistics education, difficulties in present statistics educational methods, web based education, incorporating web for statistics education and finally to develop a prototype web-based learning/teaching system.

Based on researches and the new technological aspects, this thesis discusses the important facts like appropriate web interface designs for effective learning environment, presentation of information that can be easily visualized, multimedia usage in learning environment and technical aspects of web-based application development, etc. Finally by taking above factors into consideration a prototype of web-based system which can assist in statistics teaching /learning environment is developed.

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