

Evaluation System for Course Management using Statistical Analysis Method

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Abstract

This paper proposes web-based course management system for learning subjects. In this paper, statistical analysis over student performance in tests and exams are evaluated as well as courses' quality and relationship between student activity and their results are also measured. Instead of using traditional teaching process, this system provides online learning courses, assignments, tests and exams. In order to implement this system, ICTTI (Information and Communication Technology Training Institute) Course Management System has been used as case study. This system includes evaluating and making decisions about courses. We evaluate the target Course Management System with statistical analysis method based on tests and exam results by applying Weights of evidence theory. Statistical analysis is also performed for analysis of relationship between student behavior and their results. It is a kind of analysis report for relationship between attendance and grading, showing percentage in the report instead of filtering by minimum support.