Realization of diverse Electronic tools in learning process for diverse students

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ABSTRACT

**Aim:** This research was to confer suggestions on how Electronic tools in learning management services could be implemented by the instructors in the process of Teaching and Learning to meet the requirements of different learners in Information Systems.

**Methods:** In this study the module chosen was E-Commerce in Information Systems environment. We used Thurstone scale to measure the effectiveness of various electronic tools available on Learning Management Services “Blackboard”. We also compared these electronic tools for their effectiveness in meeting learning outcomes for different learners in Information Systems. Most vitally we have compared tools such as Elluminate Live Session with Trigity Sessions; Assignment tool with Discussion Forum and within Lecture tool Virtual learning through videos with online learning material. For measuring assessments’ results, three tools were used namely E-Quiz, Discussion Forum and Safe Assignment. We also tried to measure the effectiveness of a new tool introduced on Blackboard named as Safe Assignment for submitting the assignment. Through this tool instructors were able to identify the percentage of plagiarism.

**Discussion and Findings:** This study was conducted for the session 2016-2017 first semesters. There were two sections for this course E-Commerce totaling 38 students. Based on three assessments’ result namely Quizzes, discussion forum and assignment, sample were categorized under best, average and poor. These assessments were considered for the purpose of study because they were conducted by the implementation on electronic tool on learning management services Blackboard.

Also it was important to mention that statistics on usage of electronic tool for the purpose of learning the module was done through tracking student’s access to online Learning Management Service, Attendance and finally assessing the activities submitted by an individual student.

**Table 1: Results of Assignment for IS module E-Commerce**
Researchers found that Safe Assignment tool was very appropriate to measure the analytical skills of students and this tool helped the researchers to clearly categorize best, average and poor students. This tool was quite effective in identifying the plagiarism too.

Table 2: Results of Electronic Quizzes for IS module E-Commerce

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<th>Best</th>
<th>Average</th>
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<td>Percentage</td>
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Researchers found that electronic quizzes were effective electronic tools to meet the needs of diverse student populations to meet learning outcome of the particular module. There were various types of questions presented on electronic quiz like multiple choices, either-or, true and false, fill in the blanks, etc. Some questioned needed manual grading and other types were graded automatically as the answers provided by the instructor were close ended.

Table 3: Results of Discussion Forum for IS module E-Commerce

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Researchers found that discussion forum was the most effective electronic tools to meet the needs of diverse student populations to meet learning outcome of the particular module.

RESULTS

The performance of student in each group was analyzed it was found that students in all the groups could contribute and learn the best through open discussion forum. Best Students tried to learn equally through all tools but other two groups plant least efforts and through Google search uploaded their work only.
CONCLUSIONS/RECOMMENDATIONS

It was found that discussion forum was the most effective electronic tools to meet the needs of diverse student to meet learning outcome of this particular Information Systems’ module.

Key words: Electronic tool, LMS, Blackboard, Discussion Forum, Safe Assignment

REFERENCES