A Study of Constructing a Course Knowledge Discussion Platform for Learning Improvement

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ABSTRACT

In this study, a course knowledge discussion platform following the idea of YAHOO! Knowledge+ is constructed for learning improvement. The main functions of this platform include the following: 1) to promote discussions among students, and discussions between students and teachers after class; 2) to provide a convenient way for courses knowledge inquires; and 3) to keep students in contact with course knowledge frequently. In order to encourage students to participate in the discussions, the points gained by students during the discussions can be used as one of the basis of course evaluation. In addition, in order to encourage students to discuss and jointly resolve the problem, students may form their own group to answer questions. If a group resolved the problem, additional reward points can be obtained. As more courses and more users using the course knowledge discussion platform, the accumulated knowledge of courses by the system will become increasingly rich. The system provides functions to track problems with self-defined tags in order to facilitate the students to manage their own course knowledge of interest. In addition, a full text search function is provided to enable the students to access course knowledge in a convenient way at any time. Mechanisms are designed to encourage students to actively participate in daily browsing questions and answers, asking questions and answering questions. Students can gain a sense of achievement during solving problems. In addition, other students can review the step-by-step process to learn how to solve the problem, and will find themselves the common misconceptions made. Teachers can then clarify on these misconceptions in the classroom. Experimental results showed that this approach is indeed useful to effectively improve the effectiveness of student learning.

Keywords : E-learning、Learning effectiveness、Learning through discussion、Asynchronous discussion forum

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