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硕士学位论文

教学效果反馈系统的设计与实现

Design and Implementation of Educational Effectiveness Feedback System

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摘要

教育教学是教师与学生之间、学生与学生之间进行信息传递的一种双向交流活动,这种信息交流情况如何、教学效果如何,要靠反馈来实现。教师能否给学生提供及时、准确的反馈,教学过程中的回路是否通畅,更是成功的教学的关键之一。基于Web的以JSP语言开发为主的教学效果反馈系统的设计与实现,是用来更好地解决教学中信息交流反馈的一个重要工具。该系统基于目标理论、多元智力理论和有效教学理论等,使教师能够最大可能限度的掌握学生的知识掌握情况,发现学生学习中的薄弱环节,以及时调整教学策略,促进教学效率的提高。该系统主要分为两大模块,即课堂实时评价模块及在线考试模块。课堂实时评价模块可以使教师在课堂上实时掌握学生对该节课知识点的掌握情况以动态调整教学进度,在线考试模块可以使教师了解某一个阶段(如一学期)学生对所学知识点的掌握情况。

- 教学效果反馈系统的实际意义主要有以下三方面:
- 1. 推动新课改的进行。信息技术与学科教学整合是新课改下,转变教师教学方式和转变学生学习方式的重要途径,其重要意义是不容忽视的。
- 2、优化信息课堂教学评价。利用信息技术优势,开展网络环境下的课堂教学评价
- ,与传统的教学评价不同,它通过整合信息技术的及时性、交互性等优势,能够丰富课堂评价的方式,增加课堂评价的信度,提高课堂评价的效率,最终使课堂评价 更大限度地发挥其促进学生发展的功能。
- 3、促进学生发展。课堂上的有效评价强调的是对教学的激励、诊断和促进作用 ,弱化了评价的选拔与甄别功能。课堂评价充分关注了知识与技能、过程与方法、 情感态度及价值观三个维度的目标,每个维度的不同指标制定了不同水平的评价等 级,还为不同的指标制定不同的权重。较好地关注了学生学习的不同环节,关注了 学生的个别差异,一定程度上鼓励了学生的创造实践。

关键词: 教学反馈: 实时评价: 在线考试

Abstract

Teaching and learning is an interactive activity between teachers and students. And it is a two-way information exchange. In order to learn about the information exchange progresses and the effect, one depends on the feedback. Whether the teacher can provide prompt and accurate feedback to the students, and whether feedback route is clearly set up, holds one of the keys to the successful education.

The Education Effectiveness Feedback System is designed and implemented based on Web and JSP, which is widely used as an important tool to tackle communication feedback in education. This system is based upon several theries including goal theory, multi-dimensional intelligence theory and effective teaching theory. It greatly enables teachers to master how the students learned, to discover the weak links in the students' studies, and therefore teachers can adjust in time the teaching strategies to achieve the teaching effectiveness and efficiency. This system consists of two big modules, namely classroom real-time evaluation module and online test module. Real-time evaluation module allows the teachers to know how the students grasp the points of the lessons in order to dynamically adjust the progress of teaching in real time and online test module enables teachers learn how the students master the knowledge learnt during a particular phase (such as a semester).

There is several practical significance of the education effectiveness feedback system described in the following:

- 1. Impels new teaching method reform It combines information technology and the subjects and content learning, so it is an important way to transform the teachers' teaching methods and the students' learning methods. One can not neglect such an important meaning.
- 2. Improves the accuracy of the classroom appraisal Using the information

technology, the classroom teaching appraisal takes place via internet or intranet. This is different from the traditional teaching appraisal: it is thorough, timely and interactive. It enriches ways of appraisal and it is more credible. It improves appraisal efficiency. Ultimately the classroom appraisal plays a bigger role in helping the students to develop themselves.

3. Promotes students' growth - The classroom effective appraisal emphasizes the encoragement and the diagnoses of the weak areas, its does not give any importance to selection and competition. The three concerned dimensions are knowledge and the skill, the process and the method as well as the emotion, attitude plus values. Different target of each dimension has formulated a different rating level, with different target weights. Therefore it has paid more attention to all the details of each studying process and individual differences of each student. In the certain extent it fosters studuents' ceativity.

Keywords: Teaching feedback; Real-time appraisal; Online test

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