

Analysis for the Teaching-Method Reformation of Degree Students Based on PBL Theory

Ying Wang, University of Science and Technology Liaoning, Liaoning, China

Xin Jiang, University of Science and Technology Liaoning, Liaoning, China

ABSTRACT

Under the current circumstances of foreign academic degree students in University of Science and Technology Liaoning (the foreign academic degree students come from different countries and have different foundations, different languages and different learning habits), based on the PBL theory, this work has proposed the teaching-method reformation of foreign degree students, which is combining the group study and assignment-oriented study together to reinforce students' learning process, and to improve the teaching effect. There are five steps in teaching-method reformation: questions prepared by instructors, references researching, group communication and study, in-class discussion and teacher's evaluation and summary. It is conducive to the rational allocation of the proportion of "teaching" and "learning", promoting students' active learning. The methodology would help improve the quality of the teachers and evoke self-esteem and self-confidence of the students, stimulate their enterprising spirit.

Keywords: *Foreign Academic Degree Students, Learning, PBL Theory, Teaching, Teaching Methods Reform*

1. INTRODUCTION

In recent years the number of foreign students in University of Science and Technology Liaoning (USTL) has grown gradually, especially the number of foreign academic degree students has grown quickly. Under this circumstance, it is spectacularly important to reinforce and improve the teaching process for these international undergraduate students. The traditional teaching mode is based on behaviorism. The center of this mode is the teachers' teaching, and the students passively accept the teacher's knowledge. This mode is used in English teaching of our country hundreds of years, which has a profound historical practice. However, this pattern have many disadvantages, such as single teaching methods, one-way infusion of knowledge, examination so on, which fundamentally bounds the development of English teaching. Thus, the reform of the traditional English teaching mode is imminent. In recent years, the rapid development of network

DOI: 10.4018/IJCINI.2015010104

and multimedia technology can solve the problem in the English teaching. The application of network and multimedia can make English teaching rich interesting, instructive, interactivity, so as to improve the teaching quality. The past decades have witnessed the dramatic change in the application of computer and multimedia technology in the classroom teaching, and E-commerce English instruction is no exceptions. There is no doubt that the implementation of computer and multimedia technology has become a genuine help in the instruction of classroom teaching. The function of computer and multimedia technology has undergone swift development in the process of classroom teaching, especially English language teaching, and Ecommerce English instruction as well. Consequently, the function of computer and multimedia technology has become an indispensable part in the process of classroom teaching. It is common phenomenon that teachers implement computer and multimedia technology in their classroom instruction in order to aid the quality and effectiveness of their teaching. Thus, the computer is moving gradually from assistance to autonomy in foreign language teaching and computer autonomous language teaching is facilitated with the development of artificial intelligence, digitization and information technology, the computer autonomous teaching will make it possible to conduct cooperative, individual teaching in virtual situation.

With the rapid development of Internet technology, the network has been to every family, which is deep into people's lives, study, work and other aspects, the world has entered an unprecedented era of global intonation. The traditional Web application development tools (ASP, PHP, and JSP), the page display and most of the business logic as well as the data processing are concentrated in the page code, business logic, data processing and page display strong coupling. Web application extension is more difficult to maintain, code reuse is very low and the high cost of development is not conducive to the developer division of labor, large-scale web application development on the increasingly appearance to be inadequate. Therefore, the urgent need is for a new web application design and development tools. In the past, the language curriculum and classroom were examined in terms of the textbooks used as well as the language and behavior of the teachers and students. Today, however, the textbook often comes with a CD-ROM and has a companion website. Some textbooks are intended to be used with online materials in a learning management system that the publisher maintains and the instructor may have a website or model course set up as well. The course activities on the web would not necessarily be limited to these, as students might use email, instant messenger and Skype to communicate with other students or other speakers of the target language at a remote location. In fact, the students and teacher may not ever meet in a classroom together, but instead may meet virtually on a course website in a distance learning program. In view of today's realities in the China, United States, Canada and many other countries, the historically constructed line between applied linguists who work in Internet-based language learning and those who produce other forms of language learning materials is difficult to maintain and not very useful. In a sense, today almost anyone who is working on materials for classroom language learning is working in Internet-based language learning. This vertical spread of Internet-based language learning and the considerable activity surrounding its development and evaluation prompts reconsideration of all language learning materials.

With the help of cloud computing [Y. Liu, 2011; Luo, 2012; Hu, 2014], internet of things [L. Wang, 2013; Xu, 2015], and big data [Xu, 2014; Wei, 2015], the ways of delivering education services are changing very quickly. A newly emerged form of e-learning is mobile learning (m-learning), which allows learners to participate in learning scenarios utilizing mobile devices regardless of their location. Education providers are interested in delivering services using learning management systems (LMS) to assemble all needed materials, while enabling easy access and user-friendly interfaces. Most LMSs are web-based and supported by wireless networks. Examples include the well-known Moodle, Blackboard, Docebo, etc. Thus, directly accessing

11 more pages are available in the full version of this document, which may be purchased using the "Add to Cart" button on the publisher's webpage: www.igi-global.com/article/analysis-for-the-teaching-method-reformation-of-degree-students-based-on-pbl-theory/137102

Related Content

Autonomic Computing Architecture for SCADA Cyber Security

Sajid Nazir, Shushma Patel and Dilip Patel (2017). *International Journal of Cognitive Informatics and Natural Intelligence* (pp. 66-79).

www.irma-international.org/article/autonomic-computing-architecture-for-scada-cyber-security/195019

Humans and Machines: Nature of Learning and Learning of Nature

Hélène Hagège, Christopher Dartnell, Éric Martin and Jean Sallantin (2010). *Discoveries and Breakthroughs in Cognitive Informatics and Natural Intelligence* (pp. 71-92).

www.irma-international.org/chapter/humans-machines-nature-learning-learning/39260

Event Detection and Classification for Fiber Optic Perimeter Intrusion Detection System

Xiaohua Gu, Tian Wang, Jun Peng, Hongjin Wang, Qinfeng Xia and Du Zhang (2019). *International Journal of Cognitive Informatics and Natural Intelligence* (pp. 39-55).

www.irma-international.org/article/event-detection-and-classification-for-fiber-optic-perimeter-intrusion-detection-system/236687

Social Cognitive Bias

(2019). *Analyzing the Role of Cognitive Biases in the Decision-Making Process* (pp. 110-132).

www.irma-international.org/chapter/social-cognitive-bias/216766

On Foundations and Applications of the Paradigm of Granular Rough Computing

Lech Polkowski and Maria Semeniuk-Polkowska (2008). *International Journal of Cognitive Informatics and Natural Intelligence* (pp. 80-94).

www.irma-international.org/article/foundations-applications-paradigm-granular-rough/1562