Research on Information Literacy Training Strategies of College Students Based on Modern Information Technology

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Abstract: In the new era of information technology development, it is very important to cultivate the information literacy of students. This paper discusses several strategies of information literacy education in computer public course teaching. Interest is the motive force of learning. In the process of implementing classroom teaching under the information environment, the teaching method of combining interesting teaching method, knowledge and practice is very important. In the modern information age, Internet resources are very rich. We should make efficient, rational and extensive use of Internet resources to cultivate and improve information literacy of students in an all-round way. Teaching ability is the key in teaching, and the information-based teaching ability of university teachers is the concentrated reflection of their "information literacy". Teachers should stand at the forefront of the times and make "information literacy" to be a necessary quality of their own.

Introduction

The development of modern information technology will certainly affect and change all aspects of society, and education is the first to bear the brunt. The competition of talents in the future is not only the competition of knowledge, but also the competition of learning ability, thinking ability and innovation ability. Modern information technology is a technology of active acquisition, processing, storage, transmission and utilization; it is a means of utilizing sound, image, text, digital and various sensing signals of information; it is a basic microelectronics combining computer technology and communication technology. In the face of massive information on the Internet, the ability to collect, judge and process information needs not a single knowledge, but the learning ability brought by education to everyone. Therefore, it is particularly important to cultivate information literacy of students in the era of information explosion. Paul G. Zurkowski, President of the American Information Industry Association, he proposed the concept of "information literacy" in a report entitled "The Information Service Environment, Relationships and Priorities" submitted by the American Committee on Library and Information Sciences in 1974 first. He defined it as "The ability to use information tools and information resources to solve problems". In 1999, Professor Wang Jiqing, an expert of educational technology in China, edited the Theory of Information Literacy. He believed that information literacy could be cultivated through education, so as to improve the cultivation and ability of obtaining, utilizing and developing information in the information society. It includes information consciousness and emotion, information ethics and morality, information common sense and information ability, etc. It is a comprehensive and social common evaluation. In teaching practice, we find the following problems in the cultivation of information literacy in basic computer teaching: 1) Ignoring the overall cultivation of students' information literacy, the overall level of information literacy is not high. 2) Limited to the traditional way of teaching, do not pay attention to mobilizing students' interest in learning. 3) Emphasizing only the basic application of computer technology, not the cultivation of innovation ability. We believe that information technology is a tool, and information literacy is a kind of ability. How to use tools to improve ability is the main problem of this paper.
Implementing Classroom Teaching in the Information Environment

Interesting teaching methods to stimulate interest in learning

Reasonable and appropriate use of information technology can not only greatly enhance interest of students in learning, but also make subject knowledge more intuitive and visual, and even show the content that traditional teaching methods can not present in a wonderful form, making students easy to understand and accept, and improving the teaching effect. In this relaxed and harmonious learning atmosphere, the students as the main body of cognition, participates in and absorb the knowledge given by teachers voluntarily, and tries to solve the problems encountered in learning by using the rich information platform of multimedia and network as far as possible.

Education has two basic tasks: one is to cultivate interest of students in acquiring knowledge, and the other is to cultivate ability to learn independently. In the process of teaching, teachers should consciously mobilize enthusiasm for learning and stimulate interest in learning, because interest is the driving force of learning. At the same time, teachers should teach students how to get information, how to accept and understand information, how to organize information, how to apply information to all aspects of learning, work and life. When teachers mobilize various media resources such as text, voice, image and video in the classroom, so that the original abstract and difficult content can be displayed intuitively in front of students, it stimulates interest in learning. For example, when a teacher plays a video of dynamic signature in class, students are interested in designing signatures, and then in the fonts of various dynamic signatures. Finally, they are guided to make a video of their own dynamic signature. In this interesting teaching method, students through thinking, searching, downloading and sorting out a series of operations such as the use of software, which completed a training process of information literacy, really make the teaching method flexible and interesting, and enhance interest in learning.

Teaching method combining knowledge with practice to solve practical problems

Unlike other courses, the course "University Computer Foundation" has a strong practicality. Some content can only be mastered by hands-on operation. For example, students are asked to send an email to teachers asking for leave because of illness. Because students use QQ software to send more files, they neglect the use of e-mail. In practice, if the two sides are not QQ friends, they cannot send and receive documents directly. Mail system is a simple and commonly used way of communication, so sending and receiving mail is a skill that must be mastered in future work. Teachers can explain how to apply for the mailbox, how to set up their own username and password, how to write the mail after applying for the mailbox, how to add the attachment content, and finally send the mail. Through learning, students should not only grasp many knowledge points in the main way of information transmission and exchange, but also be skilled in using information technology to transmit information.

Use Internet resources efficiently, reasonably and extensively

Training information ability in internet era

The content of information literacy is summarized by most researchers in four aspects: information consciousness, information knowledge, information ability and information morality. It is a comprehensive practical ability of people, which includes not only the ability to acquire process and use information, but also the ability of information awareness, knowledge and moral cultivation. Information competence is the core of information literacy. In the Internet era, information ability is mainly reflected in the ability to select, acquire and use the knowledge and information they need in the massive data. The cultivation of this ability should take literature retrieval education as the core content. For example, the carrier form of art literature retrieval is very rich, including periodical literature, book literature, audio and video materials, etc. Each kind of literature has different influence on learning knowledge, and different forms of literature have different retrieval paths and methods. Teachers should explain all kinds of literature retrieval methods as widely and
precisely as possible. Practice has proved that information ability is the basis of College Students learning autonomous. The cultivation of information retrieval ability must be infiltrated into computer teaching, cultivating ability to think and solve problems independently by using information retrieval, realizing autonomous learning of professional courses, and improving their autonomous learning ability and scientific research ability.

Various teaching modes of widely using modern information technology

With the rapid development of modern information technology, many new learning modes have been brought. Students can learn online courses efficiently and flexibly by using smart phones, iPads and other devices through learning platform and learning software APP. At the same time, the vast amount of learning materials, teaching videos and electronic textbooks on the Internet also provide convenient conditions for students to study independently. Students can choose what they want to learn and what they need, adopt appropriate learning methods, reasonable time and convenient places to study. With the continuous development of information technology, mixed teaching mode has become a new teaching mode in many colleges and universities. The system of information technology website, electronic library, online search, excellent courses and MOOC (Mu Course) is used to realize self-learning, collaborative learning and research-based learning. For example, the MOOC teaching mode solves the problem of passive learning in terms of learning time, makes learning resources more targeted, and strengthens the advantages of teacher-student interaction and communication. In the process of learning, students unconsciously use information technology to serve their learning, and their information technology application ability is also improved in the activities.

Improving information-based Teaching Ability of Teachers

Information-based teaching ability of teachers directly affects the quality of information literacy education of College students, but also affects the quality of school teaching. Every teacher should have enough information literacy, and integrate information literacy into the course teaching process, so that students can receive information literacy education in a subtle way. Therefore, it is more important to improve information-based teaching ability.

The improvement teaching ability can start from the following two aspects. First, according to needs of teachers, they should take part in various forms of training. At present, video technology, network technology and database technology are several key technologies commonly used in the process of modern teaching. Participating in some targeted training can quickly improve information literacy and information-based teaching ability. Second, take part in the contest of teaching view and teaching skills with the theme of deep integration of information technology and education and teaching. For example, our school always pays attention to the cultivation of teaching skills to improve teaching level. In order to deepen the reform of education, improve the teaching skills of young teachers, the school regularly organizes teacher lecture competitions every year. Within 15 minutes, the participating teachers perfectly combine modern teaching methods with traditional teaching modes, either humorously and vividly, quote classics, logically or practically, to fully demonstrate their teaching ability and level. Through in-depth competition of teaching skills and educational technology, awareness of loving teaching and devoting themselves to teaching should be strengthened, teaching level should be continuously improved, and the quality of education should be improved in an all-round way.

Conclusion

This paper discusses several strategies of developing information literacy education in the teaching of basic computer courses in universities. Through the analysis and elaboration of the previous part, it is further recognized that: 1) information literacy education is an important part of quality education, and it should be integrated into the teaching process of various professional courses. 2) As an important tool for information acquisition, analysis and processing, computer plays an
important role in information technology education, and computer technology education should be taught from the perspective of information technology. In addition, the information-based teaching ability of university teachers reflects their own information literacy, which directly affects the success or failure of information literacy education of College students. This issue is also worthy of attention and research.

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