

Research on Computer Basic Education under Information Technology in Colleges and Universities

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Abstract: With the rapid development of network information technology, the new era has also endowed network education in the 21st century with corresponding changes. The pace of reform of university information classroom construction is becoming more and more urgent. It can provide new innovative ideas for university information technology, but also put forward new reform requirements. The exploration of computer basic courses under the background of university in formatization is particularly important.

Keywords: Computer foundation; Educational research; Information technology; Colleges and universities

1. Introduction

With the development of the times, computer and human production and life are more and more closely integrated. It can be said that the development of any discipline can not be separated from the application of computers. Solving problems through computer technology is a necessary way for the development of various disciplines. This requires colleges and universities to teach basic computer courses to Non-computer majors, not only through general education, not the same teaching content for students of different majors, but also to set up different curriculum systems according to the different disciplines. First, there are some problems in computer basic course education in Colleges and universities at present. 1. Lack of attention is paid at all levels. At the college level, with the development of computer and the development of information technology education in basic education in China, the focus of computer basic education in higher education has been shifted down, making the application of computers no longer a special skill, but the ability of most people. And the computer basic course is not the compulsory subject for students to take the entrance examination for postgraduates like advanced mathematics and college English. It is no longer the necessary condition for employers to recruit talents. This has resulted in insufficient attention at the level of students' colleges and has led to the low attendance rate of students in the computer basic course, even in the college system. Some specialties have cancelled the basic computer courses when the training program is decided. Students are not interested in basic computer courses, lack of initiative and enthusiasm in learning knowledge[4-5]. Learning knowledge points is entirely to cope with exams and obtain credits, which results in today's exams. Tomorrow, all the learning will

be "returned" to teachers. 2. The obsolescence of teaching content. Although the core task of basic computer education has changed from the initial instrumental perspective to grasping basic computer knowledge and basic skills, to putting forward the concept of computer culture in the 1990s, upgrading basic computer education to the level of universal culture, and now to cultivate students' cognitive ability of computers and the ability to solve problems with computers. However, the specific teaching content is still relatively backward, and the compilation of textbooks is still disconnected from the mainstream knowledge. This leads to a large discrepancy between the teaching content and the students' interest points, which is also a reason why the students mentioned above lack enthusiasm in learning. 3. Uniformity of teaching content. As a representative of a comprehensive university, the school covers seven disciplines such as humanities, social sciences, science, engineering, informatics, geoscience, medicine and agriculture. Each discipline has its own characteristics in terms of teaching content, teaching methods and students' quality. If a set of syllabus is unified for the above-mentioned students, it can meet the basic requirements of teaching. It will also be convenient for daily management, but it lacks flexibility, and does not have the conditions to cultivate students' ability to use computers to solve problems.

2. Existing Defects of Computer Foundation under Information Technology in Colleges and Universities

With the development of computer, its application scope is more and more extensive, and its importance is more and more prominent, which has a great impact on our life and learning. At the same time, many colleges and uni-

versities have also carried out basic computer education among students, hoping that students can master some basic computer knowledge and prepare for better use of computers to solve problems in the future. However, from the current situation, there are still many problems in the basic computer education in Colleges and universities. It is difficult for students to learn the essence of the computer foundation and to be skilled in the application of computers.

2.1. The traditional teaching methods are backward

Many teachers arrange a lot of theoretical courses for students, but there are not many opportunities to actually go to the computer. Moreover, for the computer lessons, some teachers do things in a hasty way, that is, they simply operate in front of the students step by step, and the rest of the time let the students practice by themselves, without telling them why to do so, which problems can be solved by this operation. This stereotyped teaching method is not only difficult to arouse students' interest in listening to classes, but also has poor teaching effect, which is contrary to the requirements of quality education. Our common basic computer education is to live and broaden our horizons.

2.2. Negative effects of network media on college students

With the development of network media, it will also be affected by some unhealthy social atmosphere. Because of their shallow social experience, college students are easily enchanted by some unhealthy social atmosphere and public opinion, and are prone to negative thoughts such as individualism and money worship, which lead to the formation of wrong outlook on life and values and affect the development of individuals and society.

3. Methods and Measures of Developing Information-based Computer Education

Course team building. According to the teaching object, specialty characteristics and the new development of computer technology, the teaching team of Humanities and social sciences, science, engineering, geoscience, medicine and agriculture should be established through summing up the basic teaching work of computer in our school for many years, including humanities and social sciences teaching team, science teaching team, engineering teaching team, geoscience teaching team, medical teaching team and agricultural teaching team. Six public computer teaching teams for subject categories. On the premise of a unified syllabus, each team formulates its own teaching plan, so that the basic courses are closely related to the subject and professional courses, and the teaching of the basic courses lays a good foundation for students' professional courses.

Deepening the training of teachers. In recent years, the introduction of teachers has increased year by year, and the level of teachers has also increased year by year. The new teachers are doctoral graduates, which also lays a good foundation for the overall improvement of the quality of teachers. However, because all the teachers are graduates of computer specialty and know little about other subjects, they should be encouraged to study for postdoctoral degree or other related specialties in order to better understand the application of computer in other disciplines, and to highlight the teaching characteristics of the disciplines in teaching. At the same time, when assigning teaching tasks to teachers, we should try to maintain a certain degree of stability to ensure that teachers can teach for many years in the same college, so that teachers can better grasp the basic situation of students in a college and the professional needs for computer knowledge.

Refining the curriculum system. At present, the basic computer courses in Colleges and universities are mainly composed of the basic computer courses in Colleges and universities and a language course. However, due to the different disciplines, the demand for computer knowledge is also different. If we teach according to the same curriculum, it will inevitably lead to the situation that students can not learn for practical use. Therefore, different curriculum systems should be formulated according to the subject categories. Because of the differences of students' origins, students have different abilities to use computers. Therefore, in order to facilitate students' computer learning, we should set up a series of elective courses besides the normal compulsory courses. For students whose computer foundation is relatively weak, we should set up courses such as Computer Culture Foundation. For the students who are more proficient in computer operation and interested in computer knowledge, a series of open innovative experiments should be set up. Innovative experiments should increase the difficulty on the basis of basic courses, so as to promote students' deep learning of computer knowledge.

To create a harmonious atmosphere of communication for students, the rapid development of network media has been widely used in the daily life of the public, because the network media does not restrict participants and can achieve freedom of communication in the network media. And the communicators can reach a moderate distance to form a good communication atmosphere. In the process of Ideological and political education, there is also the problem of whether the distance between teaching and students is appropriate. If the distance is not grasped properly, the communication between students and teachers will not achieve the desired effect. The network media overcomes this problem and is an important way to achieve the ideal effect of Ideological and political education. It enables educators and educatees to establish

good communication and feel humanistic care in a harmonious atmosphere of communication. Increase the investment in the ideological and political education network media platform, and increase the investment in the ideological and political education network media platform, so as to realize the diversification, enrichment and scientificization of the ideological and political education platform in Colleges and universities. Increase the investment in the early design, establishment and maintenance of the ideological and political education network media platform, so that ideological and political teachers can better use and master the network media platform, and enrich their ideological and political theory knowledge.

4. Concluding Remarks

Today, with the high popularity of computers and the high intersection of various disciplines, the basic courses of computers will face great challenges. Farewell to the

simple general education and combine with various specialties will be a correct direction of the reform of the basic courses of computers.

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