

## Implementation and Research on Effective Teaching of College Computer Course

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**Abstract:** The quality education is developing continuously, and the requirement of computer course teaching in colleges and universities is clearly defined. However, the teaching activity has complexity. It is necessary to ensure the teaching activities effectiveness, meet the teaching objectives and promote the development of teaching activities. Through the application of effective teaching in college computer courses, the classroom teaching environment can be built. Moreover, it will ensure the students' high participation enthusiasm, and the steady improvement of the computer course teaching level. This paper will focus on the research of effective teaching in computer courses of colleges and universities, and pay more attention to several scientific countermeasures.

### 1. Introduction

At present, carrying out effective teaching has extremely profound influence on the computer course teaching in colleges and universities. It occupies a certain teaching position. Moreover, it is an important method to improve the computer teaching level, which has become one of the focus topics of computer teachers in colleges and universities. However, there are still some problems in college computer course teaching. For example, some teachers still use the traditional teaching mode, and students' enthusiasm for learning is relatively weak. Therefore, it is necessary to develop effective computer teaching activities, strengthen the wide application of multimedia teaching, and enhance the friendship between teachers and students. Furthermore, it can promote the smooth development of computer course teaching in colleges and universities.

### 2. The Importance Analysis on the Setting of Effective Teaching in Colleges and Universities

#### 2.1 It is beneficial to achieve the training goal of technical personnel.

It is very important to strengthen the cultivation of basic talents in colleges and universities based on the analysis of the talents structure level. According to the reform of education teaching system, it is necessary to meet the practical needs of all kinds of talents and promote the improvement of school-running level. In the process of economic and social development in our country, the demand for talents is increasing day by day. We can actively face the society and the market to cultivate a large number of talents for the enterprises [1].

#### 2.2 It is conducive to the development trend of the information age.

In the process of continuous development of information technology, it has greatly impacted the way of human communication and learning, which is in line with the development trend of education. Teachers and students get sufficient learning resources and space to achieve personalized learning goals [2]. Through the effective teaching of computer specialized courses, it can relieve the heavy work pressure of teachers and improve students' learning efficiency. It changes the situation of students' passive acceptance on teacher knowledge, guides students to form the ability to accept knowledge, learn information retrieval and correctly judge information, and can solve practical problems independently. Moreover, it can promote the students' innovative ability and practical

ability, create relaxed and the highly effective classroom teaching environment, improve teachers' work enthusiasm, arouses student's study enthusiasm, and then promote the common development and progress of teachers and students.

### **2.3 It is helpful to promote the improvement of students' comprehensive quality.**

Modern science and technology are in a rapid development stage, and the traditional education model can hardly meet the development needs of the times. In a knowledge-based society, we need to set up the long-term goal of lifelong learning in order to fully display personal value, and reach the demand of education for life. Therefore, in today's learning, it is necessary to understand the learning purpose, grasp the correct learning methods and improve the ability to solve practical problems [3]. Through the teaching development of the computer course effectiveness and the development trend of the society in the future, the students can correctly think and form a lifelong learning ability. With good moral quality, students can meet the practical needs of the study society and open up a new development path for their career.

## **3. Problems in Computer Course Teaching in Colleges and Universities**

### **3.1 Lack of scientific and reasonable computer course setting.**

At present, in the course of computer teaching in colleges and universities, there are some defects and deficiencies in the course setting. For newly enrolled freshmen, most computer courses are based on typing exercises. In the development of modern society, computers have become ubiquitous, and many students have developed certain computer skills. The knowledge that students have to master cannot be limited to the typing exercises in order to avoid affecting the students' enthusiasm for learning. At the same time, some teaching contents need to be improved, and the rationality of curriculum structure is difficult to guarantee. Moreover, in the aspect of curriculum setting [4], the computer is not closely integrated with other disciplines, and teachers pay too much attention to the integrity of the discipline internal structure. This results in the single and one-sided computer course structure, which is not conducive to the realization of the training goal of university talents.

### **3.2 The backward teaching method.**

In the college classroom teaching, the multimedia teaching mode obtains widely application, and the multimedia teaching method has been popularized rapidly. The development of multimedia teaching can enrich the content of teaching, while we cannot ignore the disadvantages of multimedia teaching methods. Multimedia teaching involves a lot of teaching content. It is difficult for students to understand and memorize correctly. Students are still in a passive learning situation. Furthermore, there is little communication between teachers and students, and a relatively perfect knowledge system has not been formed [5]. The teaching effect of computer courses is not ideal.

### **3.3 The lack of effective college computer teaching management.**

Because the traditional education mode is deeply rooted, in the evaluation and detection of the computer teaching effect, it is usually dominated by the examination form, and the actual operation ability of the students is not assessed. It is difficult for teachers to fully understand the students' theoretical knowledge. However, students also pay great attention to the theoretical knowledge of learning, and the lack of high attention to computer operation, thus contradicting the needs of the society for computer talents. As we know, the computer industry has been updated very quickly. It is difficult to meet the development needs of the times without changing the traditional teaching mode. The reason for this phenomenon is that the computer teaching management in colleges and universities has not been effectively implemented, and it is difficult to improve the teaching level and affect the improvement of students' comprehensive ability.

## **4. The Application of Effective Teaching in College Computer Course Teaching**

### **4.1 Reasonably set up college computer courses.**

Some colleges and universities are not closely related to other disciplines in computer curriculum setting, it is difficult to meet the market demand, which is not conducive to the improvement of computer teaching level. Therefore, colleges and universities should actively integrate curriculum content and understand the trend of computer development. Combine computer technology with teaching content, enhance the connection between computer teaching and other subjects, and add practical courses. Moreover, ensure the high consistency and balance between theoretical knowledge and practical activities [6], then promote the improvement of students' operational ability. In the course of computer effectiveness teaching in universities, it is necessary to ensure the rationality of computer curriculum setting, which is an important means to improve teaching level.

### **4.2 Construct new multimedia network teaching mode.**

It is necessary to enrich the teaching content of computer courses in order to effectively make up some disadvantages of multimedia network teaching mode. Give students adequate time to operate the computer. During operation, they can lay a solid foundation for the improvement of computer operation level, and form solid computer basic skills. Students can deepen their understanding and memory of the basic knowledge and exercise their practical ability through the computer operation in the multimedia classroom. Teachers should give some guidance to ensure the good implementation of computer course teaching.

In addition, in carrying out effective computer course teaching, to realize the efficient use of network resources, it is necessary to timely upload the information required by computer teaching. For example, computer operation content, computer teaching software and so on. Students can combine their actual needs, download from relevant websites, and complete computer courses. Moreover, teachers and students can use the Internet to enhance communication, communication, and the friendship.

### **4.3 Strengthen the application of MOOC teaching.**

For MOOC, the development trend of compliant with remote education is based on the formation of open education resources. In the course of college teaching reform, MOOC has exerted a great influence on the teaching of computer courses by virtue of its large scale and openness, and has given strong information technology support. In order to effectively improve the teaching level of college computers, it is necessary to effectively design and implement flipped classroom teaching mode. Particular speaking, flipped classroom fully demonstrates the students' main status, and actively carries out extracurricular self-learning to enhance the communication between teachers and students. It can raise students' participation enthusiasm through discussion. Strengthen the application of MOOC teaching, the design of flipped classroom is the key to the course design.

Before assigning students to learn tasks before class, teachers should carefully design the relevant assignments. Teachers should guide students to watch related teaching video of MOOC. Moreover, teachers can combine the contents of MOOC video and ask students to answer them, so as to train their thinking ability.

### **4.4 Actively carry out practical exercises and improve students' ability to solve practical problems.**

In the course of effective computer course teaching, teachers should be good at observing the things around students. They need to design teaching practice activities related to actual life for students, so as to achieve the goal of talents training in universities.

For example, in the study of Photoshop, teachers can choose a student's net name to design personalized signature. Understand the actual needs of the student, and strengthen the communication with students during the design process. Moreover, it is necessary to pay attention to the conclusion of the design completion such as explaining the operation and skills they use.

Another example is: during the learning of AutoCAD-aided design, students can decorate the design with their own size and overall layout through the practice, and draw out the design drawings with the knowledge learned.

From the above we can find out, through the organic integration of theoretical knowledge and practical activities, we can satisfy the students' personalized needs, and stimulate students' learning desire and enthusiasm. During the problem solving, students can enhance their confidence in learning, improve their own practical ability, and carry out effective teaching of computer courses.

#### **4.5 Build the evaluation system and assessment mechanism of computer course.**

In the past, the traditional evaluation method is static, and there is a certain disconnection between evaluation and teaching process. For effective teaching evaluation, it is necessary to have strong dynamics and strengthen the application of various evaluation methods. We need to diversify the evaluation content [8], focus on evaluating students' emotional aspect and ability. The evaluation method should also be diversified. Teachers, parents and students themselves should participate in the evaluation and unify their self-evaluation with others.

The examination is a college computer course important examination method. When determining the final exam results of the students, they attach too much importance to the theoretical examination results and the examination results. However, computer course has strong practicality. This kind of assessment method is not consistent with the development trend of computer teaching, and it is difficult to improve students' practical ability. Therefore, in the assessment of computer courses, we should pay attention to periodic assessment, integrate students' classroom performance and operational ability into the assessment results. Moreover, in the determination of the assessment method, we should pay more attention to the students' learning process, and speed up the cultivation of students' operation ability and innovation ability.

### **5. Conclusion**

In a word, it is very important to carry out effective computer course teaching. It can improve students' thinking ability, innovation ability and practical ability, and promote the improvement of computer course teaching level in colleges and universities. Therefore, we should actively carry out effective teaching and use advanced scientific teaching methods to build a group of high-quality computer professionals.

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