

# Exploration on Teaching Practice of “Computer Application Foundation” in Higher Vocational Education

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**Abstract:** With the rapid development of information network technology, computer has gradually penetrated into every aspect of social work and life. In the higher vocational education of “Computer Application Foundation”, the basic knowledge and application ability of computer are explained in detail for students, which enable students to better master. The explanation of “Computer Application Foundation” course in higher vocational colleges not only lays a solid foundation for cultural courses, but also provides an important educational means for the cultivation of talents' quality, and it is also a powerful technical basic education. This paper discusses the teaching practice method of “Computer Application Foundation” course in higher vocational colleges in the new era.

**Keywords:** Computer Application Foundation; Teaching; Application Ability; Teaching Reform

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## 1. Teaching status of computer application basis in higher vocational colleges

### 1.1 There are great differences in the basic level of students' computers

Vocational college students in general, the computer knowledge reserves will be relatively weak, compared with ordinary college students, there is a great difference, and in different areas of students' computer knowledge reserves also have great differences. At the same time, the school students are mainly sports students, science students only account for a small part. Therefore, there are more or less differences in the understanding and mastery of computer knowledge among students of different majors. Secondly, the interests and hobbies of students are not the same. Some students are particularly interested in computer knowledge, while some others are not interested in it, which directly leads to the level of achievement.

### 1.2 Too few practical teaching courses

The textbook content of “Computer Application Foundation” course is very many and complex, involving a wide range of areas, resulting in students will spend a lot of class hours and time in the study of theoretical knowledge. In this way, the teacher can be used to teach practice class hours are greatly reduced, and students cannot be in the textbook to learn knowledge through practice to deepen understanding and consolidation. There are very few opportunities for students to use computers for hands-on practice, which results in the fact that most students have mastered the textbook knowledge initially, but they will not carry out practical operation.

### 1.3 There is no agreement between teaching evaluation and training objectives

Nowadays, many teachers in higher vocational schools still adopt the traditional assessment method to test students' learning achievements, such as setting up grade examination, theoretical knowledge examination and computer operation, etc.

they pay more attention to whether the students' test results are up to standard, and pay more attention to the passing rate of the examination, but they do not pay attention to the cultivation of students' application skills.

## **2. Teaching practice method of “computer application foundation” in higher vocational education**

### **2.1 Reforming teaching content**

#### **2.1.1 Reforming the teaching content according to the needs of the society**

Compared with the tradition, the biggest characteristic of the new curriculum system reform is to delete the obsolete, outdated and simple contents which cannot keep up with the pace of the times without reducing the teaching hours, put the social needs in the main position, adding new contents, and fully expand the curriculum capacity. The case analysis is as follows.

This paper takes the teaching of students' spreadsheet function as a case study. In the process of working in real life, in order to make the work more efficient, we should master the functions in the spreadsheet more skillfully. Therefore, the teacher needs to list and summarize all the knowledge about functions in “Computer Application Foundation”. First, starting with simple functions, such as sum and average. The teacher teaches the students how to use these two functions, and introduces the data of monthly total sales and monthly average sales in the enterprise into the function, so that students can sum and average the data through the use of these two functions. Through this learning method, students have a deeper understanding of the application of functions, and their enthusiasm for learning has been greatly improved.

#### **2.1.2 According to the major of study, the teaching content should be reformed**

In higher vocational colleges, there are many students of different majors, so that they have great differences in the application of computer in the future life and work. If we continue to use the traditional teaching methods, we will not be able to take targeted to the students' learning content, nor can we effectively improve the enthusiasm of students, which cannot play the assisting role in the future social and work environment for students. Teachers can extend some skills needed later in the learning process of basic courses, such as teaching students the application of video editing software, so as to lay a solid foundation for future work and life. Students of different majors have different needs for the knowledge of “Computer Application Foundation”. Therefore, teachers need to teach students of various majors, so as to help students fundamentally and provide more convenience for students in their future work.

### **2.2 Giving full play to the role of modern teaching equipment and building a three-dimensional teaching environment**

“Computer Application Foundation” course is a public basic course, involving a wide range of computer knowledge, students' majors are different, and the knowledge needed in practical application is also different, so there will be many kinds of problems. In this way, we can give full play to the role of the existing campus network of the school, and also can develop the teaching resources on the Internet to form a foundation physical teaching environment.

The specific methods include: ① Multimedia courseware assisted teaching: put high-quality multimedia courseware on the course network platform, so that students can review and preview the course at any time, put the basic knowledge, key and difficult points, classroom training and thinking problems that need to be learned every week on the course network platform, and students can observe and observe in time. ② Online tutoring and answering: by using the convenience and quickness of the network, a series of contents such as syllabus, electronic teaching materials and related question bank are listed on the Internet for students to use. Students can also discuss and communicate with each other on the network. Students can ask teachers for knowledge they cannot understand. At the same time, students and teachers can also make progress on the network practice of computer communication and discussion, and professional knowledge fully combined together to understand knowledge that the need to be focused on.

### **2.3 Application of craftsmanship spirit**

The foundation of computer application is a compulsory course for higher vocational students, and it is also developing and exploring new directions. In the process of learning computer application basis, students can learn and master some basic

computer knowledge and skills. The main purpose of this course is to cultivate and improve students' ability to solve practical problems in life and work by using computers, and to help students develop independent thinking, unity and cooperation learning methods. Combining the craftsman spirit with the teaching of computer application foundation in higher vocational colleges can help students quickly integrate into the enterprise in the future. So, how to integrate the craftsmanship spirit and computer application basic teaching together?

### **2.3.1 Teachers should prepare well before class**

In the process of basic computer application teaching, teachers' work attitude should be rigorous and pay more attention to details. For example, in the design process of "learning task list", the learning objectives, operation procedures, after-school summary, evaluation standards and so on at each stage need to be carefully completed. The integration of craftsmanship spirit and pre class preparation helps students complete the learning content independently.

### **2.3.2 Setting up class competition**

When the teacher's classroom teaching task is basically completed, a small competition can be organized, for example, to complete the design of a web page within the specified time. Through the opening of small competitions, students' concentration in class has been effectively improved, and they can devote themselves to learning. Teachers should strive to cultivate students' patience and interest in learning, and cultivate students' awareness that learning means harvest.

### **2.3.3 Innovative thinking and pursuit of perfection**

For some students, the basis of computer application is a subject with large difficulty coefficient, which requires higher vocational teachers to innovate teaching methods in time, so as to help students master the basic computer knowledge and skills. In addition, many knowledge points such as word and PPT in the basis of computer application need students to integrate into their own ideas, so teachers need to improve students' innovation ability on the basis of the original teaching. In the teaching of computer application basis, we must integrate our own thoughts into every knowledge point to help students to form the learning habits of positive thinking and breakthrough innovation.

## **3. Conclusion**

To sum up, the craftsman spirit has a significant effect in the teaching of computer application foundation, which can effectively improve the students' learning enthusiasm, stimulate the students' creativity to a great extent, and enable the students to calm down to further understand the application of computer in the work. At the same time, in the learning process of "Computer Application Foundation", it helps students of different majors make their work easier and handier in the future.

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