

# **The Study on Curriculum Resources Development of Computer Application Foundation**

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## **ABSTRACT<sup>1</sup>**

**Taking the course of computer application foundation as a specific object of study, this paper analyzes the curriculum resources through the actual curriculum experience, and then combines with the characteristics of computer application foundation courses to complement the lack of places, putting forward some teaching methods such as the practice of teaching, the establishment of learning resources and others to maximize the effective development of curriculum resources and rational use and provide the professional and characteristic education for students.**

## **THE MEANING OF COMPUTER APPLICATION FOUNDATION CURRICULUM RESOURCES**

Computer application foundation curriculum resources have narrow and broad sense. Broad sense refers to the basic elements and the necessary basic conditions of the formation of computer application foundation curriculum. Many researchers have discussed the connotation and extension of curriculum resources from different perspectives. Some people think that curriculum resources refer to the sum of human, material and natural resources that can be used in the course of curriculum preparation. It exists in the design and implementation of curriculum and other links. Specifically,

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including teaching materials, all kinds of teaching facilities and practice base. We can also conclude the computer application of basic curriculum resources from the macro point of view, that is, computer application basic course resources are the sum of the various human and material resources and other resources conditions that are of rich teaching value and can provide services. Combining all kinds of definitions of curriculum resources, we can see that the core of curriculum resources is usefulness. All the conditions conducive to the implementation of the curriculum and the realization of the curriculum objectives can be regarded as curriculum resources.

In our university, the curriculum resources of different subject courses are different. We use the course of computer application foundation as an example to classify the related course resources. Computer application foundation course is not only a compulsory course from which every profession learns the computer foundation knowledge and operational application, but also a public basic course that help the students to meet the social information development requirements and can improve students' information quality. The purpose of the course is to enable students to learn the basic knowledge and basic operation of the computer, to develop students to consciously use the computer to solve practical problems in learning and work, and focus on the combination of computer application technology and students' respective professional teaching, scientific research work, to improving the basic quality and ability of college students. Combined with the existence of curriculum resources, this paper divides the computer application foundation curriculum resources into human resources, material resources and environmental resources. Human resources are corned on the computer class teacher resources at school, with other professional and technical personnel from outside the school with actual combat experience of and foreign scholars to supplement, at the same time students are an important part of the whole learning link which can be planned as a part of the curriculum resources. Material resources are in the form of physical resources, including our computer application basic teaching materials, audio and video materials, reference books, newspapers and magazines, film and television broadcasting, network, library and so on. Environmental resources in the course of computer application foundation mainly refer to the opportunities and places where students can conduct the computer application foundation practice, from a broad perspective which can also be included in the material resources.

At present, an important challenge for the course of computer application foundation is how to strengthen the practical ability of the students in the campus environment where the theory of teaching is the focus, so as to improve the teaching effect to the greatest extent. Therefore, through the analysis of the current situation of the relevant curriculum resources, we make a preliminary discussion of the issue from the perspective of curriculum development.

## **THE DEVELOPMENT STATUS OF COMPUTER APPLICATION FOUNDATION CURRICULUM RESOURCES**

### **Theory explanation**

Theory explanation focuses mainly on explaining the relevant theory of the computer application foundation, through logical reasoning, summed up and other ways of thinking, to guide students from their own knowledge and experience to

understand and grasp the relevant theoretical knowledge. In the course of computer application foundation, the theory explanation is very important, only with an in-depth understanding of the computer operating principles and other basic knowledge can students understand the computer, the computer applications and computer application foundation courses in essence. Although the theory explanation is relatively boring, but the theoretical study is an important cornerstone of practical operation, so explanation should be as smooth, clear and complete as possible, and should be combined with the practice of operation.

In general, the theory explanation of computer application foundation course is begin with the explanation of computer development and application history, focusing on teaching students a set of increasingly sophisticated computer application basic theory system, including computer hardware, operating system platform configuration, installation and usage, and computer basic knowledge, Word, Excel, Power point and other commonly used office software application skills. In different periods, the theory explanation should pay attention to practicality, rather than exhaustive. At the same time of explaining the basic theoretical knowledge, advanced knowledge should be intervened in in the course, such as Carry out thematic teaching, making the course more attracting to the students in the premise of teaching students, and guiding the students to study deeply.

### **Thematic teaching**

Thematic teaching is mainly based on the basic theory of knowledge, and arranges a small amount for classroom teaching about a variety of topics which form from practical computer technology and the current computer application hotspot research and the different students' interest.

Before the thematic teaching, gathering the practical skills and frontier hotspots that students are interested in is needed, and then the topic of teaching is determined, more importantly, great importance to the pre-lesson preparation should be attached. In the thematic teaching, students should be introduced through one or more examples of computer applications and technology, so that students can understand and experience the power and charm of the computer in the daily life. Thematic teaching not only increases students' interest in the course of computer application foundation, but also helps to expand the knowledge and enhance the comprehensive ability.

### **Computer practice**

One of most popular ways of computer practice of computer application foundation course mainly refers to the teaching task layout in each stage and the arrangements of computer special operations for students in the multimedia experimental classroom to improve students' self-learning ability and operational practice ability.

For the teaching practice of computer application foundation courses, there are still some problems like that students lack theoretical knowledge and there are disagreements between theory and practice. Therefore, teachers still need to communicate with students, timely answer the question, actively teach and timely supervise the students. At the end of the computer practice, teachers need to sum up the main problem of the students on the machine to prevent the problem from happening again. This can help students to effectively solve the various problems in the learning

process, to guide students from passive listening to active study, to play the students' subjective initiative, to improve the teaching effect, and to understand the students' mastery of knowledge, which can provide effective teaching feedback information for the deep development of computer application foundation course resources.

### **Group teaching**

Group teaching is that the teacher selected a theme in the teaching scale of computer application foundation course, and the students are divided into 5 to 6 groups to collaborate and discuss, and ultimately each group is require to display works and introduce the creation of the work process. Group teaching can not only examine individual teamwork and cooperative learning, but also can examine individual creative ability and self-learning ability, the essence of which is a process of scene understanding, idea exchanging, problem analyzing, solution proposing and work creating in which mutual respect and compromise between students are needed.

Group teaching of computer application foundation refers to dividing the class into several groups to form a small team as a unit mainly based on the knowledge base, learning ability and interest with strength collocation, which selected the one with more outstanding ability as a leader and the rest are the team members. In the classroom time, the group teaching can promote mutual exchange between students. In the post-class time, the group cooperates to complete the curriculum tasks with the specified theme in accordance with the task of labor division.

### **Mirror simulation**

Mirror simulation is to design a situation that may occur in reality, so that students deal with a variety of things that may occur in the simulation environment to exercise the practical ability, transaction processing, communication and organizational coordination and other capabilities of students.

In the course of computer application foundation, situational simulation allows teachers to set different levels of content that may appear in computer applications according to the learning ability, computer application skills and proficiency of different types of students. Compared with other curriculum practice, situational simulation pays more emphasis on the integration of students to strengthen students' ability to deal with practical problems, which is more conducive to the improvement of teaching quality.

### **Hardware facilities**

The existing experimental classroom is equipped with multimedia equipment and network, which provides convenience for the classroom teaching to use courseware, video, audio, and is convenient for students to use a computer independently to achieve the skills of the accessibility. In addition, the school provides a large number of information and database and other electronic resources for students which provides convenience for students to process, output and display data in the computer application process.

## **THE DEVELOPMENT OF COMPUTER APPLICATION FOUNDATION CURRICULUM RESOURCES**

### **Practical classroom**

Regardless of the computer application foundation courses or other courses, practical classroom can be said as a new way of classroom teaching. In the practical course of computer application foundation course, the most effective way is to please the graduates come to the classroom who have performed well in the classroom as a guest to tell the students about their practical experience in computer from the perspective of equality, so as to stimulate students' interest in the course of computer application foundation and to improve students' self-learning awareness. In the classroom teaching, not only the students and invited guests can build a link to have an in-depth understanding of the computer general skills application requirements and master depth of the current society, but also the guests can communicate better with mentees through practical classroom. And It can help teachers to improve the quality of teaching, to achieve a win-win results.

### **Practice teaching**

The practice teaching mainly refers to that teachers arrange independent comprehensive extracurricular learning activities aimed to further improve the practical ability of students, which not only in-depth to strengthen students' ability in the application of computer technology, but also allow students to use computer technology to solve some of the problems faced in life, to cultivate students' ability to find problems and independent thinking, to develop the practical ability, to develop the ability of comprehensive use of knowledge and innovation. On the other hand, the curriculum resources of practical activities are better to reflect the operability and feasibility of the computer application foundation, and also to grasp the educational effect with necessary. Practical activities curriculum resources refers to that the teacher is not limited to the basic principles of computer application classroom teaching, they should guide students to cultivate computer thinking purposefully to help them experience, comprehend the basis of computer application social practice more intuitively. And its main form includes computer association activities, school organization social internship.

### **Establishing a curriculum learning resource information base**

Information course learning resources are one of the key factors to improve the teaching quality of computer application foundation. Therefore, we should base on the open principle, the economic principle, the pertinence principle and the individuality principle to establish the computer application basic course learning resources information database. The main contents include the following aspects: 1) media material, mainly includes the basic application of computer related software, the outstanding job set, to help students have a more comprehensive understanding on the basis of computer application, and then help them to better grasp the skills through computer. 2) question bank, based on the outline of the National Computer Rank Examination Program to establish a computer application foundation course, to help

students better adapt to computer applications and other related work in the future. 3) course ware material, the classroom course ware, other school computer application based on excellent course ware and enterprise related training course ware integration induction. 4) literature, which refers to the basis of computer applications and other important articles and books. 5) common questions, for students to summarize the common problems and answer one by one. 6) resource catalog index, which lists the link of the network course resource address and the index of the non network resource.

### **Hardware facilities**

In order to better implement and support the implementation of the basic courses of computer application, we should further improve the hardware facilities. Whether in the classroom or in the classroom should learn from multimedia experiment, Western classroom settings, adopt movable chairs, convenient course for students in free discussion. In addition, in terms of network hardware facilities, campus network services should be strengthened to improve network speed, strengthen the construction of learning resources database, improve the information system and server, so as to help teachers and students to communicate better.

### **SUMMARY**

**Curriculum is the core of education, curriculum resources is an effective tool to achieve the objectives of the course. Different courses of the available curriculum resources vary, based on the basic computer application course as the research object, the status of the curriculum resources of the course are analyzed in detail through the actual curriculum experience, combined with the characteristics of computer application basic course of the inadequacies of the supplement, put forward the practice of teaching, teaching building methods the learning resource repository the exploitation and utilization of curriculum resources to the maximum extent, with the characteristics of education for students. The development of curriculum resources involve personnel, including curriculum developers and teachers, strong sense of curriculum need teacher to make full use of textbooks and fully develop outside the various curriculum resources, so as to realize the development of computer application foundation curriculum value and the students, as far as possible to provide various platforms, such as the subject with strong application to students for more practice opportunities. At the same time, as an important participant in the classroom teaching, the success or failure of the teaching is inseparable from the participation of the students. Each role only in teaching system each division, development and utilization of curriculum resources to achieve the maximum, can effectively cultivate students' inquiry ability, scientific attitude, in order to continuously improve the national curriculum adaptability, and then realize the high quality curriculum resources, the sustainable development of the students.**

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