

Research on the Innovative Practice of Higher Vocational Computer in the Application of Communication Technology

Wang Yang

Sanmenxia Polytechnic, Sanmenxia, 472000, China

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Abstract: In order to ensure the smooth development of the innovative practice of computer in the application of communication technology, teachers in higher vocational colleges should combine the theoretical knowledge of communication technology and practical teaching content to innovate and optimize the current communication technology teaching content, so as to implement the application of computer in communication technology, and then cultivate the professional and comprehensive qualities of students, so that students can meet the basic needs of the development of the current era. This paper analyzes the innovative practice of computer in communication technology application in higher vocational colleges.

1. Introduction

With the continuous development of science and technology, computer technology is widely used in all walks of life in China, which puts forward new demands for talents in related posts. Therefore, higher vocational colleges should reasonably apply computers to the teaching process of communication technology, so as to cultivate an innovative and comprehensive communication technology talents. In this process, teachers should formulate a more scientific and reasonable teaching plan based on students' actual operation level and students' basic theoretical knowledge, and actively introduce advanced teaching methods and teaching concepts, so as to improve students' professional skills.

2. Analysis of technical content of computer major in higher vocational education

At present, the teaching content of computer major in higher vocational colleges mainly includes computer operating system, program development, web page making, etc. It can improve the students' computer ability level, cultivate their practical ability, and determine whether the later students can meet the post needs in their work. Higher vocational colleges should require students majoring in computer to participate in vocational qualification competitions to ensure that students can combine theory with practice while mastering basic computer theoretical knowledge, so as to carry out computer system programming and database construction. Under normal circumstances, the computer specialty will be divided into programming, programming design, web design and other directions according to the relevant professional qualification tests, so that students can choose their

own application goals.

3. Basic characteristics of communication technology

Communication technology can realize the rapid transmission of information and ensure the accuracy and reliability of transmission results. Communication technology takes information transmission as a breakthrough point, breaks the traditional information transmission mode, and uses advanced scientific and technological means to transmit current information. Its transmission process has high efficiency, strong anti-interference ability, and can transmit a variety of signals.

3.1. Signal transmission in the form of multimedia

The application of computer technology in communication technology can take "two signals" as the basis, carry out multimedia transmission of voice, video, animation, text and other information, and monitor and control the transmission process in real time. Communication technology is widely used in information transmission in all walks of life, which promotes the continuous development of information and communication technology in China.

3.2. High transmission efficiency

Compared with the traditional information transmission mode, the communication technology can transmit tens of thousands of signals in the process of transmitting information, which is dozens of times faster than the traditional transmission mode. [1] In the current situation, with the continuous growth of science and technology, the information content is gradually increasing. In order to meet the requirements of the current information and data development, most enterprises should actively introduce advanced communication technologies to complete the signal transmission. Therefore, higher vocational education should establish sound and perfect communication supporting facilities, innovate and optimize current communication technologies, expand students' knowledge, and cultivate their comprehensive and professional qualities.

3.3. Strong anti-interference ability

Using communication technology to transfer information can ensure that the transmission process is efficient and the transmission results are accurate. At the same time, because the communication technology uses binary mode for signal transmission, it can effectively shield the surrounding interference information, has strong anti-interference ability, and can ensure the integrity and accuracy of data. In addition, in the process of using communication technology to transfer information, you can encrypt the transmission process to ensure the security and reliability of the data transmission process [2].

4. Teaching requirements of communication technology in higher vocational education

4.1. Attach importance to students' basic content learning

Communication technology is a required course for students majoring in electronic information engineering. In the process of communication technology teaching, it has higher requirements for teachers' teaching level. Specifically, teachers of communication technology specialty should have the teaching ability of basic computer technology theory knowledge, and should also recognize the importance of computers in the current network teaching environment, and teach students the corresponding basic knowledge of communication technology from the aspects of communication

principles, communication media, etc., so that students can timely understand the whole process of signal processing, transmission, encryption of communication technology. At the same time, teachers should group students into groups and carry out practical teaching related to communication technology, so that students can fully participate in computer technology practice projects and ensure that students have strong communication technology practical operation ability. In addition, teachers should combine the characteristics of different majors to innovate and optimize the current computer communication teaching contents and methods, explain the manufacturing of computer parts and the history of technological development to students, and explain the basic theoretical knowledge of communication technology to students, so that students can have curiosity in the process of carrying out practice, thus improving students' operational ability and professional ability, and cultivating students' learning awareness. The consciousness of technological innovation will lay the foundation for students to step into social work in the later period.

4.2. Optimize the technical objectives of student assessment

The use of communication technology can enable computer equipment to communicate with each other, thus increasing the scope of people's knowledge. Under the current situation, teachers should regularly and regularly assess students according to their professional level, and comprehensively consider students' learning achievements in programming pages, system operation and other professional directions, so as to establish sound and perfect teaching requirements for programming design and improve students' proficiency and accuracy in operating communication systems. At the same time, teachers should complete students' assessment technology projects within the specified time, evaluate and assess students' professional skills according to the method and process of students' completion of programming projects, so as to guide students to establish correct computer professional curriculum goals, enable students to complete the learning tasks arranged by teachers within the specified time, and cultivate students' comprehensive quality while improving their professional skills. In addition, teachers should optimize and improve the current assessment system to make the assessment items more scientific and reasonable, so as to create a good learning atmosphere for students and reduce their learning pressure.

4.3. Update the teaching content of communication technology

With the continuous development of science and technology, the current communication posts put forward new demands for communication technology talents. Therefore, teachers should combine the current market demand, update the computer communication technology teaching knowledge content in time, optimize the existing computer equipment system, and combine the communication technology with the equipment maintenance equipment system, so as to ensure that the knowledge learned by students in the classroom can be applied to practice in the later stage, and avoid the disconnection between students and social needs. Specifically, teachers should optimize and improve the current teaching system in combination with the actual teaching level and content of the current computer professional courses, change the traditional education concept, and develop corresponding computer teaching courses by taking technical needs as the main content of classroom teaching, so that students can improve their professional level and cultivate their understanding ability while understanding the basic theoretical knowledge of communication technology. Logical ability and learning ability.

5. Application and Innovation of Computer in Communication Technology

5.1. Flexible application of teaching methods

Teachers should make clear the latest communication technology teaching requirements based on the actual social needs, and complete the teaching of basic communication technology ability knowledge through flexible application of innovative teaching methods. At the same time, according to the current teaching progress of communication technology courses, students' learning results are regularly and regularly assessed, so as to develop a more scientific and reasonable communication technology teaching plan, strengthen effective communication with students, improve students' professional and technical level, and cultivate students' comprehensive education and professional quality. For example, in the teaching process of programming courses, when students complete programming tasks, repeated loopholes often occur in the program, resulting in students' lack of enthusiasm for programming and affecting the evaluation of students' programming results. In this process, teachers can strengthen effective communication with students, guide students to complete corresponding programming projects, and guide students to the correct direction of computer application according to their advantages. In addition, in the process of repeatedly modifying the program, students can find their own advantages and disadvantages. Teachers should let students learn to study, reflect and analyze independently. Finally, teachers can use flexible teaching methods to enrich the teaching content, make the teaching classroom lively and interesting, and make it easier for students to understand boring theoretical knowledge, so as to improve the theoretical level of students' basic knowledge.

5.2. Reasonable application of teaching technology

Under the current Internet environment, teachers should actively introduce advanced teaching technology and enrich classroom content through multimedia teaching equipment. Specifically, for the circuit principle related to communication technology and the teaching of wireless technology, teachers of communication technology specialty in higher vocational colleges can explain the basic theoretical knowledge of computer and the circuit of equipment, so that students can understand the whole process of communication technology for signal transmission and processing, so that students can understand the importance of computer equipment for computer communication technology. At the same time, because the communication technology course is a comprehensive course combining theory and practice, teachers can show the charm of communication technology to students through the teaching methods of achievements display and case analysis, so as to improve students' enthusiasm and initiative in learning. In addition, teachers should make use of existing computer equipment to let students understand the whole process of computer communication equipment manufacturing through the demonstration of system model and digital electronic technology, so that students can deeply understand the application and development prospects of communication technology in different scenarios, thus improving the level of students' communication technology. Finally, teachers should innovate and optimize the existing teaching technology, show the whole process of network communication and network equipment to students, so as to improve students' logical analysis ability and practical comprehensive ability, so that students can combine theoretical knowledge with practice in later posts, and meet the basic needs of social posts.

5.3. Practical Activity Application of Teaching Knowledge

Higher vocational colleges should combine the actual needs of society, recognize the importance of practical activities of teaching knowledge, and combine the current key and difficult points of

communication technology learning, according to the actual level of students, develop a scientific and reasonable practical teaching material program, so as to improve students' practical operation ability and cultivate their comprehensive quality. Specifically, teachers can guide students to independently complete the computer webpage program project according to the actual level of current students, and cultivate students' ability to achieve operation. At the same time, teachers should correct students' wrong behaviors when operating computer systems, and help students find system loopholes, so that students can improve their learning ability and control ability in the process of practice. In addition, in the process of practice, if students are unable to solve the problem of technical operation, teachers should timely give correct advice and guidance, and strengthen theoretical knowledge training to guide students to solve the difficulties encountered in the programming process. In addition, students' behaviors can be standardized and controlled to prevent students from copying other people's procedures, and a perfect, unified and standardized reward and punishment system can be developed to evaluate and review students' works and achievements, reward excellent students, and punish poor students, so that students can realize the importance of practical operation courses, It enables students to improve their professional level in the process of independently completing programming projects, and guides students to establish correct behavioral values. Finally, teachers should regularly and regularly update and optimize the teaching guidance plan, adjust the direction of guidance in combination with the actual situation of students, so that students can apply basic theoretical knowledge to practice, and ensure that the practice teaching classroom is interesting and lively through multimedia teaching methods, so as to stimulate students' potential and cultivate their enthusiasm and initiative in learning.

5.4. Application analysis of computer technology in communication technology

5.4.1. Application of Computer Technology in Billing System

With the continuous development of science and technology, computer technology has been applied to all walks of life in China. Today, society has put forward new demands for computer technology. Therefore, higher vocational colleges should integrate computer technology into the teaching process of communication technology. For example, taking the billing system as an example, compared with the traditional billing model, computer technology can store the data of the billing system efficiently and quickly by applying computer technology to the billing system, thus ensuring the security, stability and strong adaptability of the billing system. Specifically, the application of computer technology to the billing system can meet the actual needs of different users and improve the adaptability and practicability of the billing system. For example, most colleges and universities will have their own independent campus networks. Students can obtain high-quality and efficient communication services at a very low price, which promotes effective and efficient communication among students and reduces the pressure on students to pay for their calls.

5.4.2. Application of Computer Technology in Information Management System

In the current information explosion environment, only by establishing a sound and perfect computer information management system can all walks of life in China move towards the road of informatization and digital development. At present, the scientific and reasonable application of computer technology to information management system can improve the working efficiency, adaptability and practicability of the system. Most enterprises have started to move towards the road of automatic and intelligent development. Therefore, higher vocational colleges should combine the actual development needs of the current society to cultivate a group of innovative and comprehensive communication technology talents suitable for the current job needs.

6. Conclusion

To sum up, in order to reasonably apply computer technology science to communication technology teaching classes, higher vocational colleges should combine theoretical knowledge with practical teaching courses, improve teachers' teaching ability, and develop more scientific and reasonable teaching programs and teaching methods according to students' actual learning conditions, so as to cultivate students' comprehensive quality and improve their practical operation ability while improving their professional and technical level, So that students can play their economic value and social value in the later work.

References

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