

Research on Computer Teaching Model in Colleges and Universities Based on Internet Application Platform

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Abstract: With the rapid development of Internet technology, people's way of life has gradually changed, and people's learning channels have been expanded. Nowadays, many colleges and universities introduce advanced equipment and technology, create Internet education and teaching platform, or combine relevant application platform to carry out online teaching, optimize teaching structure, greatly improve the teaching efficiency of each major, and strengthen the teaching effect. This paper briefly analyzes the advantages of the computer teaching model based on the Internet application platform, and probes into the construction strategy of the computer teaching model based on the Internet application platform.

1. The Advantages of Computer Teaching Model Based on Internet Application Platform

Nowadays, colleges and universities in various regions have introduced Internet platform to carry out online teaching of application platform, which effectively solves the problems which are difficult for students to solve in class. In order to better meet the changing learning and development needs of students, teachers have introduced the Internet application platform to make full use of their advantages of rich resources, diverse expressions and wide range of information exchange.

Advantage 1: rich in teaching resources. The scope of computer professional knowledge is relatively wide, and comprehensive and practical, teachers should cultivate students' ability to use computer technology, traditional teaching methods will make students feel boring and boring, which is not conducive to improving students' learning efficiency. After using the Internet application platform, teachers can combine the various resources in the platform to carry out classroom teaching activities through video, picture, audio and so on (figure 1), which can attract students' attention and stimulate students' interest in learning. In addition, teachers can also enable students to simulate the operation on the platform, can learn to do while doing, with the class to exercise students' ability to use, to consolidate the classroom teaching results [1].



Figure 1 Rich Internet teaching resources

Advantage 2: have rich teaching expression method. In the process of computing classroom teaching in colleges and universities, teachers can use Internet resources, through the Internet application platform, abstract text, data and other knowledge, through virtual technology, simulation technology and other means, through the intuitive way to achieve the goal of highly

consistent information with the real situation, so that students can intuitively learn knowledge in classroom learning, accumulate learning experience, and stimulate students' creative thinking [2].

Advantage 3: The scope of information exchange is wide. In the past, people communicated with each other, and the interaction mainly depended on telephone, fax, short message, letter and so on, and the frequency of interaction was low, so they could not actively obtain more information resources. After the Internet era, people use the Internet application platform, not only can complete the online interaction and communication, but also can directly transfer some educational resources, set up online communication learning group (figure 2), real-time transmission of learning results report, at any time to arrange learning tasks, etc., can effectively solve regional problems and expand the scope of communication.

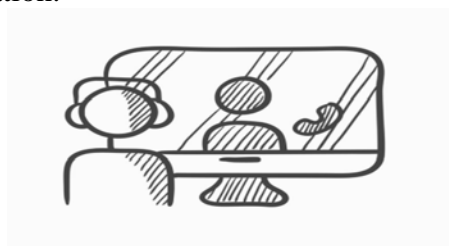


Figure 2 Online learning group "face-to-face" communication

2. The Teaching Path of Computer Major in Colleges and Universities Based on Internet Application Platform

On the one hand, computer teachers in colleges and universities can introduce "situational teaching method ". Situational teaching is a kind of special teaching method. By stimulating students' vision and hearing to create a situation related to professional knowledge, we can create a good atmosphere of professional lethal learning for students, and promote students to actively participate in computer skills training, so as to improve students' classroom learning efficiency and cultivate students' autonomous learning ability. To create the teaching situation of computer professional knowledge, teachers should ensure that the situation is in accordance with the specific knowledge points and skills, respect the students' existing professional level, and combine the students' existing learning experience to fully mobilize the students' interest in learning [3].

On the other hand, teachers can introduce "group collaborative learning method ". This teaching method is mainly to transform the main object of students, to combine individual learning individuals into learning groups, to create learning collectives, and to form a certain mechanism of cooperation and competition. The group cooperative learning method can fully mobilize the students' interactive enthusiasm and change the students' learning role. In the process of specific teaching, teachers can assign various tasks to students to solve them online in groups, and teachers can see the interaction of each group in the application platform. They can also realize the long-distance interaction and interaction of group students, and exercise students' computer professional skills, such as: software development ability, cooperative design ability, etc.[4].

3. The Construction Strategy of Computer Teaching Model Based on Internet Application Platform

(1) attaching importance to basic education and integrating it into computer-applied thinking education

In order to construct the computer professional teaching mode based on the Internet application platform, we should not only pay attention to the students' application ability, but also pay attention to the teaching link of the professional basic knowledge, integrate the thinking of the Internet application platform into the classroom teaching of the theoretical knowledge, gradually influence the students' learning thinking mode, and promote the students to use the application platform learning naturally. In the process of practical teaching, teachers should first understand the learning level of class students, master the professional knowledge reserve of class students, calculate the

technical proficiency, problem solving ability and professional accomplishment level, formulate the teaching plan that accords with the platform situation, and apply the Internet application platform throughout the whole process of professional teaching [5]. Computer teachers in colleges and universities should also have good scientific thinking, be able to face up to the relationship between students and teachers, and realize the important value of students' learning initiative to cultivate students' ability; teachers should set up problems and tasks properly, provide students with the opportunity to explore and learn independently, and train students' ability to use computer technology.

(2) Understanding the main position of students and guiding students to act autonomously

In order to construct the computer professional teaching mode based on the Internet application platform, it is necessary to clarify the main position of the students in the classroom, to firmly "take the students as the main body ", to guide the students to take the initiative to make the learning behavior and to explore the professional implementation. In the process of practical classroom teaching, teachers should realize the difference between different students in class, some students have a certain basis of computer professional knowledge, and some students belong to "zero basis ". In the face of this situation, teachers should respect the differences between students, combine the contents of the teaching materials with the teaching activities of this class, put forward different levels of classroom tasks and problems, set up different difficult practical homework after class, so as to meet the learning needs of students at different levels of the class, and take care of each student as much as possible. In addition, teachers can also use the advantages of the Internet application platform to emphasize pre-class learning and after-class learning, so that students can get the task of course preparation on the platform before class, preview and autonomous exploration; they can also let students submit the results of after-class practice online, teachers can put forward their opinions remotely, timely feedback, help students solve problems, and improve students' professional ability.

(3) Flexible use of the application platform to extend the classroom teaching scene

In order to construct the computer professional teaching mode based on the Internet application platform, teachers should also make flexible use of the Internet application platform to fully explore the advantages of computer professional teaching on the platform. Teachers can introduce online courses, extend classroom scenes, and allow students to study at home on holiday and in the dormitory. For example, in early 2020, because of the spread of the new coronavirus, many colleges and universities have postponed the start of school, in response to this situation, teachers can use "MOOC" to enable students to use computer, mobile phone classes, online learning professional knowledge; after learning the basic knowledge, students can complete the learning module task in the system, online submission of homework; teachers can use the whole process of monitoring students' learning behavior, evaluation and feedback on the process of students' practice and results, put forward opinions and suggestions, so that students can "not go to the door" to acquire knowledge and form a good ability to use it.[6].



Figure 3 MOOC large-scale online course pictures

(4) Strengthening professional teaching assessment and building a high-level contingent of teachers

In order to construct the computer professional teaching mode based on the Internet application platform, teachers should start from themselves, constantly improve their own professional and educational quality, and provide students with better quality education and teaching services.

According to the course setting of computer major, colleges and universities should put forward the professional teaching assessment mechanism, check teachers' teaching ability of Internet application platform regularly, examine teachers' mastery of Internet application platform operation technology, carry out teacher training regularly, urge teachers to master system operation method skillfully, urge students to use Internet application platform flexibly, give full play to the utility of computer teaching mode based on Internet application platform, and train more outstanding professionals to meet the needs of society.

4. Conclusion

To sum up, the traditional computer teaching mode will not be suitable for the modern society, the original classroom teaching method is single, the teaching idea is backward, can not help the students to understand the professional knowledge, stimulate the students' interest in learning, and exercise the students' professional application skills. Based on this, teachers should introduce the Internet application platform, construct a new computer professional teaching model, and provide students with high-quality education and teaching services. In the process of practice, teachers should attach importance to the teaching links of basic knowledge and integrate the application platform teaching idea in the daily skill, but also recognize the main position of the students, guide the students to take the initiative to use the application platform, search a lot of information, interact with other students and teachers on the platform, discuss professional knowledge, so as to strengthen the students' learning effect and promote the students' professional development.

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References

- [1] Li Ting. An Analysis of Mixed Teaching Model of Basic Computer Courses in Colleges and Universities Based on Internet + Environment. *Computer Products and Circulation*, no. 01, pp. 237, 2019.
- [2] Qi Kai, Guan Ying, Yang Zhi. A study on the Sharing Mode of Educational Resources in Colleges and Universities in the "Internet +" era. *Modernization of Education*, vol. 5, no. 41, pp. 303-307, 2018.
- [3] Yin Dandan, Liu Qiang. New thinking on computer major teaching in the era of "Internet+". *Technological Wind*, no. 10, pp. 23-24, 2018.
- [4] Guo Haixia. Research on the Reform of Computer Basic Education Teaching Mode in Colleges and Universities under the background of "Internet+". *Financial Theory and Teaching*, no. 06, pp. 93-94, 2017.
- [5] Sun Min. The construction and attempt of basic course teaching mode based on "learning communication" platform under "Internet +". *Industry and Technology Forum*, vol. 17, no. 01, pp. 64-65, 2018.
- [6] Li Jifeng, Jin Chengzhe. "Internet+" mobile terminal learning platform and college physical education curriculum integration research. *Journal of Jilin Institute of Chemical Technology*, vol. 34, no. 12, pp. 71-74, 2017.