Research on the Practical Basis and Countermeasures of Higher Vocational Education Development under the Background of Information Technology

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Abstract: In the current era, with the continuous development of information technology in our country, as the base of talent training, higher vocational colleges should integrate the current advanced information technology into the mode of higher vocational education, and improve the students' learning efficiency and learning quality as a whole. Relevant responsible teachers should strengthen the research on the means of information technology education, so that higher vocational education can be continuously developed. In the process of research, the realistic basis of the development of higher vocational education under the background of information technology and the relevant education plan should be clarified to promote the steady development of higher vocational education in the current era.

1. Introduction

Information technology has been fully integrated into people's daily life and work, so in the higher vocational education, in order to meet the needs of the development of talents in the current era, the leaders of the relevant higher vocational colleges should formulate more perfect personnel training goals according to the background of the development of information technology, so that students can meet the needs of the relevant posts after graduation.

2. Using Information Technology to Optimize Teaching Design

With the continuous development of information technology in our country, in order to improve the teaching level and teaching quality of higher vocational colleges as a whole, the responsible teachers of relevant colleges and universities should fully understand the advanced information technology teaching means in the present era, integrate the relevant teaching resources through the network, create a more perfect teaching environment for higher vocational colleges, and integrate the information technology teaching means into the whole stage education perfectly in the whole teaching process, and use the network to manage the students centrally[1]. At the same time, we should construct the network platform of higher vocational colleges, realize the sharing and communication of various educational resources and information, and effectively improve the teaching quality and teaching level of higher vocational colleges, so that information technology can play a good role in optimizing teaching design.

2.1. Use of Information Technology for Inquiry Teaching

In the traditional higher vocational education, because of the limitation of teaching facilities and teaching resources, the students' learning resources in the classroom study have some limitations, which is not conducive to the improvement of their own professional level, and the enthusiasm of the students is also very low. Therefore, in order to solve this situation, teachers should integrate the information technology teaching means into the higher vocational education perfectly and carry out the inquiry teaching[2]. First of all, the teachers of relevant courses in higher vocational colleges should make use of the teaching means of information technology to integrate the learning resources for the students, and constantly improve the interest of classroom teaching. At the same time, it is necessary to use information technology to improve students' inquiry ability, so that each
student can acquire relevant knowledge according to their own professional foundation and learning ability, and promote the students' application ability of subject, and use information technology to carry out inquiry teaching to students. When using information technology to carry out inquiry teaching, we should make clear the irreplaceable role of network and experiment in inquiry teaching, and optimize the traditional teaching structure effectively, so that the education of higher vocational colleges can be integrated with information technology.

2.2. Project Teaching Using Information Technology

In the course education in the higher vocational stage, the students should not only master the basic theoretical knowledge, but also cultivate the students' application ability and professional accomplishment, so as to promote the students' all-round development after graduation. Therefore, in the current era, the relevant teachers can make full use of information technology to carry out the project teaching mode, so that each student can apply the knowledge learned in the classroom to practice, and constantly improve their independent inquiry ability.[3]. However, there are still many problems in the use of information technology to carry out the project teaching, most teachers say that in the process of using information technology to carry out the project teaching method, the students' enthusiasm cannot be effectively improved, in view of this situation, teachers should make a deep analysis of the causes of this phenomenon. On the whole, first of all, teachers give students insufficient space for independent learning, and students have no effective guidance on the students' learning ideas in the whole process of autonomous learning, so that it is difficult for teachers to construct more perfect the knowledge structure in the process of project teaching, at the same time, the evaluation of the students' learning achievement and the whole teaching mode is relatively single, therefore, in order to make the effective method of project teaching, teachers should combine the characteristics of the current project with the characteristics of the students and the students' development in the course of the course of learning in the future, and the students should be For example, teachers can use the platform of Baidu celestial elephant to teach students projects:

![Teaching platform](image)

Figure 1 Teaching platform

In addition, teachers should create rich teaching evaluation methods, make different learning standards according to different students' learning results, and introduce relevant indicators in the actual teaching process to judge the whole learning process of students in all directions, so that the teaching level and teaching quality of higher vocational colleges can be significantly developed under the background of information technology, and promote the improvement of students' professional ability.

3. Using Information Technology to Improve Higher Vocational Teaching Management Model

With the continuous development of information technology in our country, relevant responsible
teachers should not only use information technology in curriculum education to improve the efficiency of classroom teaching, but also use information technology to improve and innovate the teaching management mode of higher vocational colleges effectively. In the process of the development of higher vocational colleges, the educational administration is an important part of the development of higher vocational colleges, which is beneficial to improve the development level of higher vocational colleges as a whole, so the relevant managers should constantly improve their information literacy in the current information age, integrate the information technology perfectly into the teaching management mode of higher vocational colleges, and the relevant managers should fully understand the development market of the current information technology and use the advanced software to realize the modern characteristics of teaching management. The information platform is shown below:

![Image](image.png)

Figure 2 Information platform for higher vocational colleges

In the current era, with the continuous development of information technology, information technology has brought some impact and challenges to the traditional teaching management mode in higher vocational colleges. In order to promote the continuous improvement of teaching management mode in higher vocational colleges, relevant managers should innovate the teaching management system and means effectively. In addition, with the continuous development of higher vocational education in our country, the number and scale of enrollment in some higher vocational colleges are increasing, which makes some higher vocational colleges often have many problems in student management. In order to improve the effectiveness of student management as a whole, the managers of relevant higher vocational colleges should use information management mode and management means to continuously improve their work efficiency. Through the network to carry on the omni-directional management to the student's information and the school teaching present situation, and the supervision constructs the relatively perfect school educational administration information frame, and constructs the relatively perfect higher vocational college teaching management pattern according to the school's present development need and the school's own management structure, thus highlights the higher vocational college teaching management pattern in the higher vocational college development process core value and the main function.

4. Establish a Unified Automated Management Service Platform

With the continuous development of information technology in our country, for the education of higher vocational colleges, the relevant management personnel should establish a unified automation management service platform to meet the daily needs of teachers and students, in the process of establishing a unified automation management service platform, we should introduce advanced information equipment and realize the management mode in different situations, so as to construct a more complete management platform, after constructing the management platform, we need to maintain the information management platform effectively, which requires the relevant management personnel of higher vocational colleges to continuously improve their own information
literacy, standardize the management of the management platform and the later maintenance. The main construction ideas are as follows:

![Figure 3 Optimization of information service construction](image)

It can be seen that in constructing a unified automatic management service platform, the relevant responsible teachers should strengthen the sharing of information and the exchange of information, so that the teaching resources of higher vocational colleges can have the characteristics of keeping pace with the times, and at the same time, the interactive communication between managers and users should be realized, so as to strengthen the communication between teachers and students, so that the classroom can provide one-to-one guidance and communication to students according to the students' current learning situation and teaching resources, so as to meet the students' needs of relevant knowledge, so as to highlight the advantages of higher vocational education and the value of education, so that the higher vocational education can be transformed successfully in the current era.

5. Conclusion

With the continuous development of information technology in our country, the development of information technology is both an opportunity and a challenge to the education of higher vocational colleges, and the relevant managers should constantly improve their own information literacy, seize the opportunity of the development of higher vocational education in the current era, use information technology to effectively improve and innovate the original education mode and educational concept of higher vocational colleges, and constantly enrich the experience of information technology teaching and management.

References

