Reform and Innovation of Higher Vocational Education management Mode under the background of "Internet +"

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Abstract: Under the background of "Internet +", the management mode of higher vocational education is experiencing unprecedented change and innovation. With the rapid development of information technology, the Internet has penetrated into all aspects of our lives, and has brought many new opportunities for higher vocational education management. In the field of teaching, "Internet +" breaks the geographical boundary and physical boundary, making the construction of virtual platform another main front of learning; In the field of scientific research, "Internet Plus" helps to share knowledge and information, break through new models and technologies, guide trans-regional and industrial economic development, and realize the modernization of education, teaching and management. In view of this, this paper discusses the reform and innovation strategy of higher vocational education management mode under the background of "Internet +", hoping to provide more reference for front-line educators.

Key words: Internet +; Higher vocational education; Management mode; Innovation significance; Innovation strategy

Introduction

With the rapid development of information technology and the popularization of Internet application, the traditional management mode of higher vocational education has been difficult to adapt to the rapidly changing educational needs. In particular, the psychological and characteristic needs of college students change, which drives the management mode of higher vocational education must be innovated and reformed. To supplement online teaching and online activities, it is necessary to consolidate education management resources and optimize and improve the education environment, so as to make full use of the advantages of the Internet, and explore a new mode of higher vocational education management suitable for the current era with the goal of improving education quality, broadening education channels and improving management efficiency. Therefore, the following discussion focuses on the reform and innovation strategies of higher vocational education management mode under the background of "Internet +" :

I. The connotation and characteristics of "Internet +"

"Internet Plus" deeply integrates the Internet with traditional industries, and promotes the transformation and upgrading of traditional industries through the innovation and application of information technology. Based on the Internet and combined with cutting-edge technologies such as big data, cloud computing and artificial intelligence, it has promoted the rapid transmission of information, the efficient use of resources and the restructuring of industrial chains. In this digital era, Internet Plus has penetrated into various fields, such as education, medical care, finance and agriculture, changing people's lifestyles and business models. In other words, the Internet supports convenient online services, breaking the traditional restrictions of time and space, allowing people to access information and explore practices anytime and anywhere. It has also promoted a wave of innovation and entrepreneurship, providing more opportunities and platforms for young people and graduates. In China, the Internet will also enhance information sharing, optimize resource allocation and enhance work efficiency, promote digital transformation in education, and push the global economy to a new level.

II. Significance of innovation in higher vocational education management under the background of "Internet Plus"

1. The teaching field promotes convenient work and study

The application of Internet technology makes teaching more convenient and efficient. Teachers can publish course content, homework requirements and learning resources online, and students can study and submit homework anytime and anywhere. This obviously provides greater flexibility and supports students to learn according to their own ideas and characteristics, making teaching and learning flow smoothly. With the help of Internet technology, teachers can also make use of multimedia, micro-lessons and MOOCs, virtual simulation experiments and other teaching means to enrich teaching content and improve teaching effect. In this way, students can support online discussion and interactive communication, expand their thinking and improve their learning ability. In addition, the Internet supports the innovation of education platforms and educational software, and also drives the implementation of personalized teaching and precise teaching, bringing students adaptive teaching guidance and homework correction results, completing teaching evaluation links and promoting the improvement of students' performance. In short, "Internet +" supports higher vocational education management innovation to play a positive role in the field of teaching, which not only facilitates teachers' teaching and management, but also facilitates students' self-study and practice, all of which contribute to improving the quality of higher vocational education.

2. Stimulate innovation consciousness and vitality in the field of scientific research

The open source creation and distribution structure of the Internet is conducive to higher vocational researchers to break through the obstacles of scientific research construction, break the restrictions of organization and region, and realize the networking and flattening of scientific and technological innovation. The expansion and extension of "Internet +" enables scientific researchers to obtain academic

information more widely and improve the overall quality through knowledge sharing, achieve cross-industry, cross-region, cross-field and cross-department collaborative innovation, and obtain social welfare and optimization and improvement. Based on this situation, it is more convenient for higher vocational colleges to promote the transformation of science and technology and the construction of Internet platforms. They can connect with the demand side of science and technology transformation through online trading platforms, and at the same time provide credit and evaluation services for the transformation of scientific and technological achievements in higher vocational colleges with the help of Internet technology. At the same time, higher vocational colleges strengthen the linkage of teaching and research, improve the conversion rate of technology, increase the number of research results, and further improve the quality and effect of scientific research through the support of Internet +, forming a positive cycle.

III. The innovation strategy of higher vocational education management mode under the background of "Internet +"

1. Accelerate the thinking transformation of data management concept

With the rapid development of information technology, all walks of life are facing digital transformation, with the support of data management concept will be a tiger. The traditional management mode of higher vocational education often relies on subjective experience and intuitive judgment to make decisions, which is easy to be affected by subjective bias and personal preferences. The concept of data management supports decision making. Through data analysis and mining, more accurate and objective information can be obtained to help decision makers make scientific and reasonable decisions. For example, in terms of enrollment management, students' interests, hobbies, learning ability and other characteristics can be understood by analyzing the enrollment data over the years, so as to formulate targeted enrollment policies and improve the effectiveness and quality of enrollment. On this basis, the collection and analysis of data such as students' learning situation and teachers' teaching level can find problems in time and take corresponding measures to improve them. Another example, through the data analysis of students' performance, find out the students with poor academic performance, and carry out targeted counseling for their existing problems to improve their learning effect; Through the thinking transformation of the data management concept, the teaching process is optimized and perfected, and the student-centered classroom is designed to improve the teaching effect and learning experience. In addition, sharing data resources, optimizing management mode, avoiding repetitive construction and waste of resources, can also promote cooperation and exchanges between higher vocational colleges and improve the overall level of education. For another example, higher vocational colleges can share student employment data to understand the needs and trends of the job market, so as to adjust the professional Settings and train talents who are more in line with the needs of society. When we actively carry out cross-school project cooperation, we will also jointly develop educational resources to realize the docking and correction of school-based resources. In short, it is of great significance to accelerate the thinking transformation of data management concept for the innovation of higher vocational education management mode. Through data analysis, data sharing and exchanges and cooperation between higher vocational colleges, the modernization of the whole field of higher vocational education can be promoted.

2. Accelerate the digital upgrading of education management model

The digital upgrading of the management mode of higher vocational education is an inevitable trend of the development of higher education under the background of "Internet +". It is not only an innovation of the traditional management mode, but also a profound change of thinking and system reconstruction. The digital upgrade is not only to simply transfer the existing management mode to the Internet platform, but to take information technology and intelligence as the core to realize the comprehensive optimization, efficiency improvement and intelligent development of education management. First of all, the digital upgrade of education management mode requires the establishment of a sound information infrastructure. This includes building efficient and convenient data centers, integrating various information systems and databases within schools, and realizing data sharing and exchange. At the same time, it is also necessary to strengthen network security to ensure that sensitive information and personal privacy are effectively protected. Only on the basis of sound information infrastructure can the digital upgrade of education management model be carried out stably and reliably. Secondly, the digital upgrade needs to break through the shackles of the traditional management mode and realize the optimization and reengineering of the management process. The traditional management mode of higher vocational education often has some problems such as tedious manual operation and information island, which leads to low efficiency and waste of resources. With the help of big data analysis and artificial intelligence technology, digital upgrading can realize the intelligent optimization of management processes in educational affairs, enrollment and employment, and improve the efficiency and accuracy of decision-making. In addition, the digital upgrade also needs to introduce advanced teaching resources and tools to achieve intelligent teaching links. This includes online teaching platforms, virtual laboratories, remote teaching systems, etc., which break the time and space restrictions through Internet technology, so that students can access high-quality teaching resources anytime and anywhere. At the same time, virtual reality and augmented reality technologies can also be combined to provide students with an immersive learning experience, stimulate learning interest and creativity, and promote the modernization of education services. In short, the digital upgrading of the management mode of higher vocational education is a systematic project, which needs to be comprehensively promoted from infrastructure, management process, teaching resources to management concepts.

3. Use Internet technology and evaluation to enhance teaching efficiency

Establish a teaching information platform, students and teachers can access a variety of teaching resources, such as online courses, electronic textbooks, network courseware and so on, anytime and anywhere. These teaching resources can also be customized, according to the different needs and abilities of students, personalized teaching, so as to improve students' interest in learning and learning results. In

terms of evaluation, there are also data analysis, machine learning and other means to comprehensively evaluate students' learning from multiple perspectives. At the same time, this kind of evaluation can also provide timely feedback on students' problems, and provide strong support for adjusting teaching methods and content resources. Based on this, teachers apply Internet technology and Internet platform to guide the entire teaching, constantly improve their own experience and innovate the concept of digital management, and also evaluate the situation of students and give scientific, accurate and objective opinions, with machine learning and guidance, to radiate students' professional thinking. If conditions permit, the school will organize the development and design of software specifically for online education and management and expansion services, which will also bring twice the result with half the effort. In a word, the application of Internet technology and evaluation to enhance teaching efficiency is a very important point in the management of higher vocational education. Through the application of Internet technology, a series of optimization can be achieved, such as the sharing of teaching resources, scientific evaluation, and the improvement of teachers' teaching ability, so as to help the sustainable development of higher vocational education.

4. Use Internet resources and technology to activate scientific research projects

Traditional scientific research projects are often limited by time, region and resources, and it is difficult to carry out cross-regional and interdisciplinary cooperation. However, the emergence of the Internet has broken these restrictions, enabling researchers to share information and collaborate on research through online platforms. They can use Internet search engines and academic databases to quickly access a large amount of literature, and use online collaboration tools to communicate and cooperate with other researchers in real time. At the same time, the publication and online exchange of corresponding research results will also create an open and transparent research environment, stimulate the innovation potential of researchers, and increase the fairness and accuracy of peer review. Then, researchers will share their research ideas, experimental methods and results through the Internet platform, and get evaluation and guidance from other experts and scholars. In addition, Internet resources and technology can also provide more diversified scientific research tools to drive the execution of online questionnaire survey, experimental data analysis, virtual experiment landing, etc., and make full use of intelligent technology to optimize the experiment process and conclusions. When we use the online simulation experiment platform for various experimental operations, we will also use the cloud computing platform for big data processing and analysis, which not only provides more scientific research resources for higher vocational colleges, but also provides a more open learning environment for students. To sum up, the application of Internet resources and technology to activate scientific research projects has far-reaching significance. Through the use of the Internet platform for information sharing, cooperative research, to provide an open and transparent scientific research environment, to provide a variety of scientific research tools and platforms, can effectively improve the level of higher vocational education management.

Concluding Remarks

The innovation of higher vocational education management mode under the background of "Internet +" ADAPTS to the development needs of The Times, so it is also the inevitable choice of education modernization transformation and digital transformation. The development and progress of higher vocational education can be greatly promoted by accelerating the thinking transformation of data management concept, promoting the digital upgrading of education management mode, applying Internet technology and evaluation to enhance teaching efficiency, and applying Internet resources and technology to activate scientific research projects. We should keep up with the pace of The Times, actively adapt to the application of new technologies, and constantly innovate the education management model, so as to make contributions to training more high-quality technical talents.

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