Practical Problems and Reform Strategies of University Education Mode in the Perspective of Informatization

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Abstract: In the information age, technology is applied to every corner of our lives by utilizing the characteristics of information generation, and the development of IT has spread to every aspect of our lives. The information age is a great age, and now IT has become the core technology and universal technology of all kinds of contemporary education. With the continuous reform of university educational administration, all universities have made good achievements in the construction of EAS (educational administration system). However, due to the characteristics of EAS itself, there are some problems to be solved in the application process. In the information age, realizing the informationization of university teaching management is not only an inevitable measure to adapt to the development of the times, but also an important way to improve the efficiency and quality of university teaching management in the information age. This paper analyzes and discusses the reform of university teaching mode under the condition of informationization, and puts forward the content of university teaching informationization construction, curriculum teaching mode and learning strategy.

1. Introduction

Teaching informatization construction is an important part of university construction, and its construction level has become an important symbol of the overall school running level, image and status of a university [1]. With the rapid development of network IT and the deepening of university teaching reform, the importance of teaching information construction and application and university teaching mode reform is becoming more and more prominent [2]. The traditional teaching management system is rigid and inflexible, so it is difficult to make a timely response to the changing internal and external environment, and the management efficiency is low [3]. In the information age, realizing the informatization of university teaching management is not only an inevitable measure to comply with the development of the times, but also an important way to improve the efficiency and quality of university teaching management in the information age [4]. In essence, university teaching management under the condition of informatization is a new university teaching management mode produced by following the informatization concept and using informatization technology. It is not only an important manifestation of the self-improvement and self-renewal of university teaching management, but also an embodiment of the university teaching management keeping pace with the times [5].

With the continuous development of science and technology and the deepening of educational reform, the traditional university information management model has been unable to manage the university more scientifically and reasonably [6]. And the credit system implemented by major universities also puts forward higher requirements for the management of universities. The reform of teaching mode can not only improve the teaching conditions of universities, but also improve the learning quality of students, so that students can better meet the needs of the development of modern society and better serve the society. The information age uses the characteristics of information generation, and technology is applied to every corner of our life. The development of information has spread to all aspects of life [7]. The information age is a great era. Now IT has become the core technology and universal technology of all kinds of contemporary education. The development of information education is conducive to the realization of learners' active learning and

the implementation of quality education [8]. In the traditional education mode, teachers are not only the organizers of teaching, but also the disseminators of information, and learners can only passively accept information. This paper analyzes and discusses the reform of university teaching mode under the condition of informatization, and puts forward the content of university teaching informatization construction, curriculum teaching mode and learning strategy.

2. Main contents of university teaching informatization construction

2.1. Digitization of teaching information resources

There are many subsystems in the university information system, and the EAS (educational administration system) is a very important part of the university information system. The rapid development of internet and IT has created a good external environment and technical conditions for the construction of university digital campus. In recent years, the construction of campus network in various universities has begun to take shape, and obvious progress has been made in the construction of education and teaching informationization, which has played a positive role in promoting teaching reform and improving the quality of personnel training. EAS belongs to a digital information system designed for university educational administration. In the process of practical application, we can reasonably judge the problems in the management process, and then give some guidance to the staff, so that the quality of educational administration can be effectively improved [9]. In addition, it can also help students and teachers' practical behavior, so as to establish good behavior habits based on network management in universities. Teaching informatization refers to making full use of information network technology and modern educational means under the guidance of modern educational thought, based on the construction of university teaching environment, teaching resources, teaching means and learning environment, teaching organization and management informatization, etc., so as to realize informatization of the core teaching activities of universities, such as teaching hardware environment, teaching related resources, teaching and learning process, teaching organization and management.

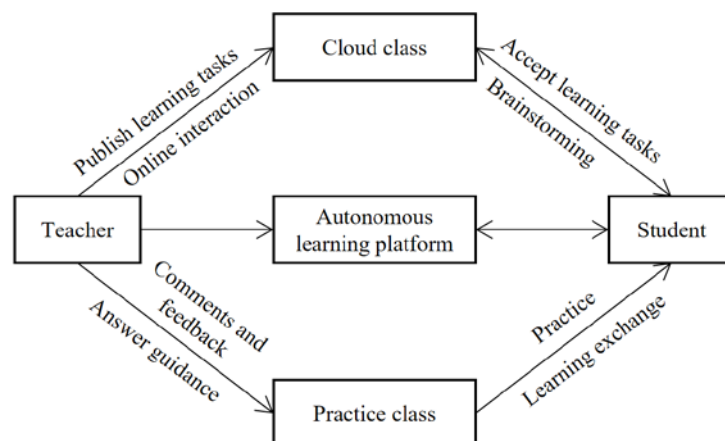### 2.2. Informatization of teaching process

Figure 1 The implementation process of the Internet teaching platform

For modern teaching, the informationization of university educational administration is a major symbol of the development of modern teaching. Through the support of network, it breaks through the constraints caused by traditional regions on information transmission. Teaching informatization should not only pay attention to the digital construction of teaching information resources, especially the informatization of related resources of various courses, but also pay attention to the practical application in the teaching process. Teachers are the main body of implementing teaching informatization. Based on this, it is necessary to adjust teachers' teaching concepts, reverse the situation of attaching importance to teaching while neglecting practice, cultivate and strengthen teachers' experience in using information network technology and modern educational technology,

and promote the progress of teaching modes and methods through IT, so that not only can various media be used in classroom teaching, but also classroom teaching efficiency can be improved [10]. The implementation process of the Internet teaching platform is shown in Figure 1.

For managers, it is possible to make reasonable arrangements for teaching and scheduling; for teachers, teachers can view teaching tasks at any time and record students' achievement information in a timely manner; for students, they can inquire about course selection and schedule and achievements online. Through the establishment of educational administration management system, it can effectively overcome the management defects such as slow information transmission and inconsistent format in traditional management methods. It can effectively improve the work of educational administration, ensure the smooth and stable progress of educational administration, and make the management of educational administration more standardized.

3. Reform and innovation measures of university educational administration informatization

3.1. Establish a more perfect and standardized workflow

For the EAS system, in the process of application, all departments need to cooperate with each other, and the attention of the leading departments of the school will also directly affect the establishment of the EAS system. On the one hand, the establishment of EAS system will involve some business processes and rules and regulations, which need to be discussed and agreed by the school's leading departments. On the other hand, the leading department of the school will directly decide the capital investment and resource allocation needed for the establishment of the EAS system. Although various management software has been installed to realize the LAN of university teaching management, it is still not ideal in some aspects, mainly because there is still much room for improvement in the degree of informationization. With the development of IT, the teaching methods and teaching contents have changed, and then the teaching concepts have changed, then the teaching strategies and methods have changed, and finally the students' learning methods have changed greatly. In the process of application and practice of the system, it is necessary to handle the relationship between academic staff and various management contents, so that the management work can be completed more efficiently and with high quality, and the situation of over-reliance on computers can be prevented.

3.2. Improve the accuracy of basic information

Under the condition of informationization, the reform and innovation of student management mode and training means must be realized through various means and channels. Under the information environment, some traditional management methods, management concepts and management modes are almost difficult to play their functions effectively, and even have adverse effects. Therefore, it is necessary to build and train a teaching management team with high comprehensive quality to adapt to the change of teaching management brought by informationization. The teaching resource cloud platform is shown in Figure 2.
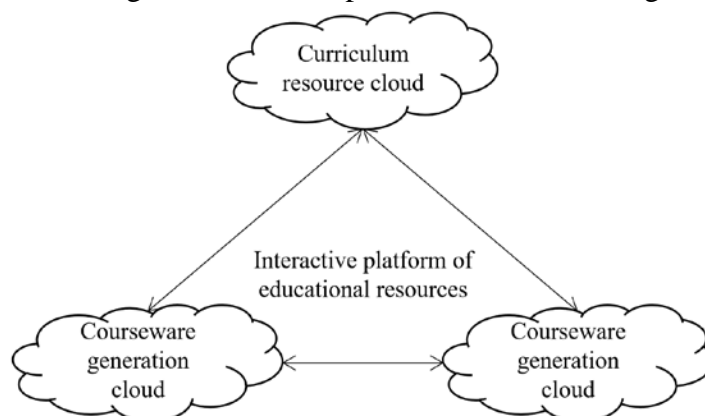

Figure 2 The teaching resource cloud platforms

The network will have a great impact on the EAS system. Therefore, in order to ensure a stable broadband network and server on campus, and to upgrade and update the school network system continuously, we should increase the investment in the construction of the network system. Teaching interactive cloud platform can not only provide teachers and students with more convenient network use, but also build digital campus and other platforms. The role of IT in teaching and learning should be to promote the full play of students' initiative as the main body of learning activities. IT can be used not only as a teaching aid for teachers, but also as a learning tool for students. As a student's learning tool, we should consider the integration of IT and curriculum from the student's line, and pay attention to the integration of the changes in middle school students' learning methods. Under the condition of informationization, skilled use of IT is an important prerequisite for improving the efficiency and quality of teaching management, and science and technology can be used as an important means to improve the quality of teaching management.

4. Conclusions

For universities, educational administration is a very important link in the educational work of universities, and it is also the core and foundation of management. The work quality of educational administration will directly affect the teaching quality of universities and the benefit of running schools. Knowledge is the common wealth of mankind, and the construction of digital teaching resources in universities should not only be used and shared in schools, but also be moderately open to other universities and society, so as to expand the utilization rate of teaching resources. Under the condition of informationization, the reform and innovation of student management mode and training means must be realized through various means and channels. Whether it is for the better development of the university itself or to better meet the requirements of educational reform, universities should change the traditional educational administration and adopt more advanced technical means and management modes to manage the educational administration. The trend of development in the digital age is irreversible. As the essence of this trend, we must have a comprehensive, clear and profound understanding, and further study the current situation, reform and development of our universities, so as to be targeted and forward-looking.

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