The Impact of Education Informationization on College Education

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Abstract—**Under the trend that Internet technology has become an important driving force in the development of the current era, it has promoted the development of college education, and it also brought a revolution to college education. Universities, teachers and students in this kind of information Under the situation of development, it faces unprecedented opportunities and challenges. The high development of the information society should be clear that "Internet +" is by no means a denial and subversion of traditional higher education, but a replacement and upgrade. Undoubtedly, college education is being entangled in a great change based on information technology. Blindly, "talking about the Internet," and closing the eyes can only be abandoned by the wave of the times. We must strengthen our confidence, face new challenges, and seize New opportunities, avoiding potential risks, can embark on a new path of network education, and need education reform to meet the requirements of cultivating innovative talents for information society. Education informationization has become the inevitable development of education for information society and adaptation to information society. result. In the process of rapid development of educational informationization, what kind of impact and influence on college education is a question worthy of our deep thinking.**

Keywords—Education Informatization, College Education, Impact and Influence, Internet Thinking

I. CONTENTS OF UNIVERSITY INFORMATION CONSTRUCTION

The information construction of colleges and universities in China originated in the 1990s. With the continuous development of information technology and network technology, the application of information technology in the development of all walks of life in society, the development of colleges and universities is also accelerated by the close integration of information technology. In the 21st century, after China put forward a great strategy of using informationization to drive the four modernizations, the Ministry of Education has also proposed an ambitious target strategy of "innovating education with information technology to promote education modernization and realize leap-forward development of education" [1].

Informatization of colleges and universities is an important strategy for national information andization, and also a requirement for education modernization. Informatization of colleges and universities is an inevitable combination of the continuous application of information and technology and the development of colleges and universities. It is also a solution to the problems arising in the development of colleges and universities through informationization. The informatization of colleges and universities has transformed colleges from traditional education mode into diversified education mode. It is an indispensable element for colleges to improve the quality of education and cultivate modern composite talents. [2]In the same way, the informatization of colleges and universities can make the development of colleges and universities rational and scientific, thus improving the management and office efficiency of colleges and universities. Informatization of colleges and universities is an indispensable factor to enhance the core competitiveness and international influence of colleges and universities.

Informatization construction of colleges and universities The construction of information technology in colleges and universities is a long-term, complex, systematic system construction of university construction and Xinqibei technology integration. It utilizes advanced modern information technology to realize various resource integration and resource sharing in colleges and universities, and uses Internet technology to form various resources into a huge information space, using Internet technology to realize teaching, management, office, service, teaching resources, etc. The extension of time and space of resources, thereby improving the quality of teaching in universities, promoting the progress of scientific research, accelerating work and management efficiency, and improving service levels. The construction of credit and socialization in colleges and universities is to use the intelligent tools of information and technology to strengthen the level of running schools, improve the quality of personnel training, and enhance the core competitiveness of colleges and universities.

II. ADVANTAGES OF THE DEVELOPMENT OF INFORMATION TECHNOLOGY IN COLLEGES AND UNIVERSITIES

A. Have More Teaching Resources and Increase the Teaching Experience of Teachers.

In the previous college teaching, the resources that the teacher mastered and utilized were very limited, and the teaching mode was also very simple. Most of the teachers' resources were only the teacher's textbooks and the textbooks and handouts left by the students' textbooks and their predecessors. [3]When teachers are in class, most of them read a book or a lecture, and even the content of each teacher's PPT is similar. Students can't afford to be interested in class, and the teaching results are getting worse. Nowadays, through the Internet, teachers can get more extracurricular resources, such as each different version of the textbooks, the preparation materials of some excellent teachers in the foreign school, or the lecture videos of famous

teachers, and even some foreign teaching materials, such a rich network. The information can help the teacher to do the preparation work before the class. The teachers can carefully compare the teaching mode and teaching content of other teachers on the network, learn from each other's strengths, not only broaden the knowledge of the teacher, but also carry out the teaching work better and more effectively.

B. Use Information-Assisted Instruction to Improve the Overall Quality of Students.

University is a period of decisive role in the future development of a person. In the university period, it is necessary to pay attention to the cultivation of students' self-awareness and innovation consciousness, as well as the cultural knowledge and professional quality of students [2]. The student's greatest responsibility is to learn. [4]Only a combination of solid theoretical knowledge and rich practical experience will become a competitive talent. For the study of theoretical knowledge, the realization of university information development can provide students with more and better resources. For example, many colleges and universities will purchase some database permissions, including China Knowledge Network, Google Scholar and VIP Database. These databases can be Students improve the most authoritative and cutting-edge literature. These resources are difficult to obtain outside the university, which is undoubtedly a treasure trove of students' self-learning. In addition, for practice, the realization of university informationization can make students' experimental operations more convenient and faster, and the data obtained by network analysis is more authoritative.

III. PROBLEMS IN THE DEVELOPMENT OF INFORMATION TECHNOLOGY IN COLLEGES AND UNIVERSITIES

(1) Institutions have insufficient understanding of informatization and neglected the cultivation of talents. The current information management system of colleges and universities in China does not break through the traditional management system of colleges and universities, and there are still many difficult problems. For most colleges and universities, the information construction and management departments of the school only have network centers. In the eyes of most students and teachers, the network center only has the task of managing the campus network. This is obviously the understanding of informationization.[2] Deviation in the eye. If you make full use of the school's network center, you can make the teacher's teaching more standardized and modern, so that students always know the most cutting-edge information, but in fact, most of the students and teachers around us use the school's network to entertain themselves. Other informatization facilities such as the Group's VPN remote digital resources and China Knowledge Network use very little. Moreover, the main force in the beginning of informatization construction is technical personnel, but after a certain stage of development, more management personnel are needed, rather than purely technical personnel.

(2)The system of informatization construction in colleges and universities is not perfect and lacks overall planning. In the process of information construction in colleges and universities, the biggest problem facing the school is not from the backwardness of technology. The biggest obstacle facing the school is the traditional management mechanism and system of the school. In the traditional college model, the network sector is a dispensable department. This idea may have been correct a few years ago, but in today's pre-information class, the school has not changed their network department. Attitude, in most colleges and universities in China, information management is generally handled by departmental supervisors. Their authority and job status have largely determined their ability to speak in school construction, which makes it difficult to manage information can rise to the overall strategic height to develop [3]. Moreover, another problem faced by university informationization construction is the lack of overall planning and unified management. In most colleges and universities, the departments of each department use the information management system of their own departments. The standards and system management methods of these systems are different, which makes it difficult for schools to manage them in a unified manner.

IV. COUNTERMEASURES TO ACCELERATE THE DEVELOPMENT OF INFORMATION TECHNOLOGY IN COLLEGES AND UNIVERSITIES

(1) Improve the ideological understanding of teachers and students on information construction. The level of informatization construction of a university determines the development speed of the school in the next few years and the overall competitiveness of the school. How to use the power of informatization to stand out in the competition of colleges and universities, first of all, to correct the teachers and students to the information construction The misunderstanding is to raise the importance of teachers and students to informationization and to use the power of information reform to improve themselves. For the leadership of colleges and universities, after the informatization construction of the school begins to take shape, it should change the operational concept and operational process of traditional management. It is necessary to raise the informationization department to the level of the strategic management department in a timely manner and make full use of the informationization. The power to solve the problems encountered in the development of education and reform

(2) Building a unified information management system and standardizing the information platform. The inconsistency of the information management system used by various departments of various departments of the school is another major problem in the construction of information technology in colleges and universities. [4]It will not only interfere with the process of school information construction, but also be a kind of talent and financial management for schools. Great waste. Therefore, an important step in accelerating the development of information technology in colleges and universities is to establish a unified information system, and to develop and integrate various information systems on this system. [4]The unified system includes unified registration standards, unified identity authentication, unified information release, and unified access. Permissions, including a unified business support platform. In this system, teachers and students can access all the information published by the school without any department or college restrictions.

(3) Improve the information quality of college personnel. While accelerating the construction of information technology in colleges and universities, we must simultaneously improve the informational quality of teachers and managers, such as building

an informatization professional team, improving teachers' ability to use informatized knowledge, and improving teachers' work efficiency. We will timely summarize the new problems and new difficulties encountered in the construction of information technology, and continuously promote the informationization of schools.

V. EXPLORATION AND PRACTICE OF INFORMATION CONSTRUCTION IN COLLEGES AND UNIVERSITIES

The school set up an informatization construction leading group and an information construction office, established a good operational management mechanism, and improved management systems and job responsibilities. Comprehensively carry out information technology application training, implement centralized and network training modes, and train a group of managers who can skillfully use modern information technology to carry out their work, and be able to master the modern information technology teachers. Each college has set up a special department for network teaching, responsible for information technology support and maintenance.

(1) Independent development of the admissions online admission notification platform. Using computer network technology, database technology and C# language, each education college has independently developed a networked management platform for admissions notifications. After the students log in, they can print and download their own admission notices and provide interfaces with other application systems.], the specific development process is shown in Figure 1.

The admissions network management platform solved the "last mile" problem of network enrollment. After the student logs in to the platform, the admission notice is automatically generated and can be displayed, printed, and downloaded across the browser. Redesigned the admission notice and embedded the QR code of modern communication tools, such as QQ group, WeChat group, new student enrollment website or official Weibo. [4]Candidates can get the latest information quickly if they have a smart phone. Get in touch with the school to seamlessly communicate between the student and the school; the notice also provides a QR code and barcode that interfaces with the system of orientation, educational administration and student management.
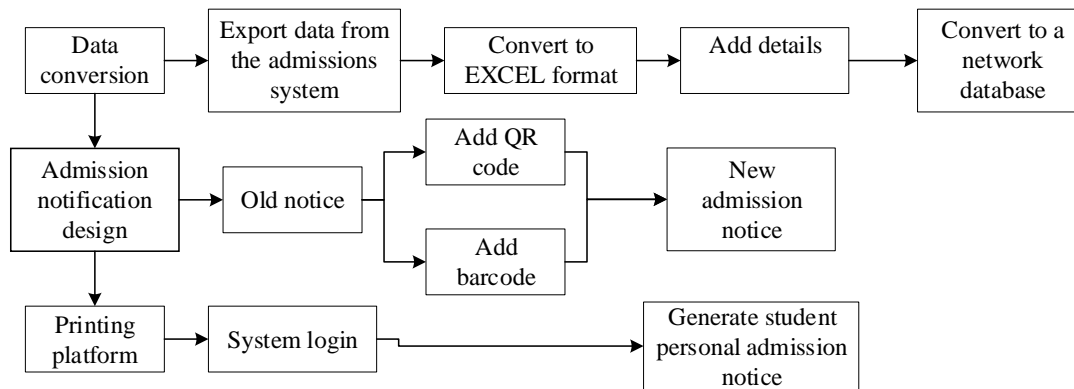

Figure 1 Enrollment admission network management platform development process

(2)Customized development of adult education management system. According to the characteristics of higher education teaching and the actual needs of the school, the college has customized the education information management system, covering all aspects of education and teaching management, with complete functions and convenient operation. The system functions are shown in Figure 2.

The educational management system includes management modules such as curriculum management (including teaching plans, scheduling, examinations), student achievement management, teaching materials management, teaching quality assessment and online registration. [5]It has teaching plan formulation and adjustment, departmental teaching tasks and teacher teaching. The task book is issued, the teacher arranges, the schedule is arranged, the schedule is adjusted, all kinds of schedules are printed, the teaching inspection statistics, the teacher teaching workload statistics, the examination management, the score management and so on.

The student management system includes functional modules such as enrollment information management, orientation management, student status management, fund management, graduation management, basic information and system maintenance, covering most of the work of student management, and is the work of student management departments, counselors and class teachers. Effective tool.

The network-based education management system can share all kinds of data and publish it on the network platform in time. After the management departments log in to the system, they can conduct two-way, multi-party, and open communication within their respective rights. Teachers and students can query the information they need without being limited by time or space. The process of information transmission is greatly shortened, the truth and integrity of information are preserved, and teachers and students can obtain information more fairly and efficiently.
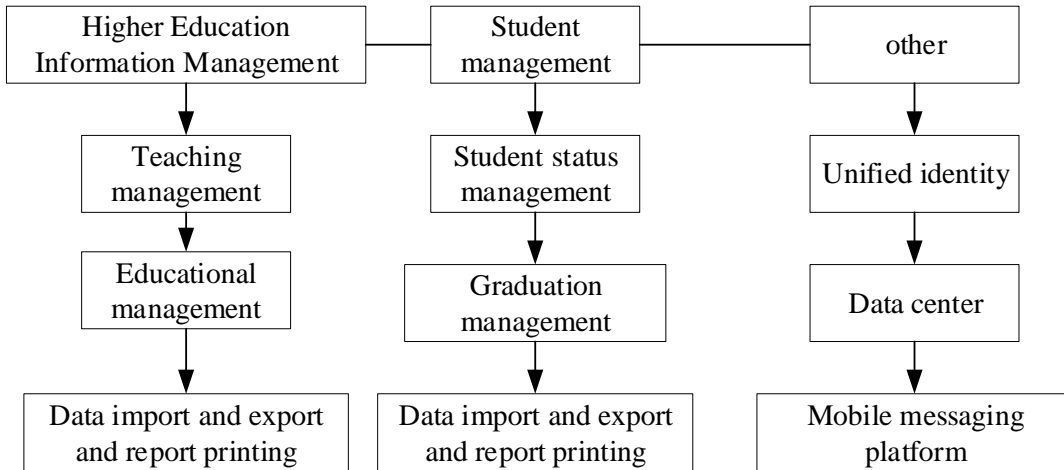
Figure 2 Schematic diagram of the education management system

VI. CONCLUSION

Under the background of the world's countries to promote the construction of information technology in colleges and universities, under the requirements of improving the overall competitiveness of Chinese universities in the international arena, we must constantly accelerate the construction of information technology in China's colleges and universities, and march forward bravely in the wave of informationization. Although the current informatization development of colleges and universities has not yet achieved the final victory, we believe that with the efforts of all educators, China's college education will certainly break through the traditional model of imprisonment and realize the new leap-forward development of education.

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