Research on educational information technology system under the background of “Internet+”

Xinchen Wang, Hai Chi
Jinan Preschool Education College, Jinan 250307, China

Abstract. The popularization of Internet and new media technology has promoted the upgrading of educational software and hardware, and promoted the continuous improvement of educational technology. This paper studies and analyzes the educational informatization technology system from the concept of the educational informatization technology system, the defects of the educational informatization technology system, and the development trend of the educational informatization technology system, and summarizes the characteristics of the educational informatization technology system. The direction and measures for improvement are set out, so that the educational information technology system can be continuously improved and developed.

Keywords: Internet+; Educational Informatization; technology system.

1. Introduction

"Internet +" refers to the use of various network information technologies by various Internet industries in my country to promote information integration between China's Internet industry and other domestic organizations in related fields or other industry units, thereby creating a new form of expression and development trend for a certain industry. In the context of the information age, with the popularization of the Internet and the wide application of new media technologies, "Internet +" has become an innovative development model applied to all walks of life. Education informatization under the background of "Internet +" refers to the organic integration of traditional education and modern information networks, the integration of some high-quality online teaching resources, the expansion and development of new teaching paths, the cross-border integration of education at all levels, and the construction of a new ecological teaching. In this "Internet +" era, education reform is also quietly emerging under the catalysis of information technology. The new technology system and facilities and equipment of modern information-based education have been gradually introduced into various types of education in schools of different cultural levels, and the application of information technology will play an irreplaceable role in the overall leap-forward development of higher education in promoting the reform of education informatization.

The development process of education information technology system is a new type of information technology established by colleges and universities through the organic integration of traditional education and modern Internet technology on the basis of further improving higher education and gradually reconstructing the historical basis of my country's traditional information technology education system. The process of modern educational learning environment. The result of in-depth promotion of educational reform and development and the modernization of education is a new form of education—educational informatization. Education informatization is a scientific process in which education uses advanced modern information technology to develop various educational service resources, optimize various educational development processes, promote the development of various educational reforms, and improve the quality and technical level of educational informatization in my country. Education informatization is also a very important part of the development of social informatization, and its quality level will directly affect the healthy development of informatization work in this society. However, the educational information technology system refers to a systematic process of scientific educational technology methods, means, approaches, management, evaluation models and application structures that can continuously change and develop by adapting to the level of modern knowledge and information technology, and promote progress and reform. The information technology system involves all aspects of the modern education information technology
teaching work in all disciplines, links and levels of management. The education informatization project is an important policy opportunity, measure and approach for the information society to accelerate the development of applied higher education. It is of great significance to vigorously and actively promote the construction of rural education informatization, to promote the modernization of higher education and the sustainable and stable development of higher education.

The so-called educational informatization technology system refers to a group of other basic informatization components that interact and relate to each other in the development process of education informatization in my country, and it is a unified organic whole with certain subject functions, hierarchical characteristics and system structure characteristics. From this point of view, the educational informatization technology system is actually a human-designed system. This system is based on people's understanding of the development of educational informatization and then makes a conscious choice for its future development. It is an ideal model for the construction of educational informatization goals. From the development history and evolution process of information-based teaching system in various universities and educational research and technology institutions at home and abroad, the three basic historical processes in the evolution of educational information technology system are actually three evolution processes of constantly seeking and improving their own development mode and self-improvement and self-improvement in the practice of the self-development mode of China's modern educational information chemistry system. Under the background framework of the current "Internet +" informatization development plan, the educational informatization technology system built in China should be considered as an evolutionary exploration process of the scientific development practice of the educational system at the stage of long-term exploration and dynamic experience accumulation. It has not established a set of fixed or unified perfect educational technology framework mode system or system operation mode, it is necessary to constantly summarize practical research and practical exploration in practice through the knowledge gained by educators at all levels and their own educators in the process of informatization construction practice and exploration. The content resources of the educational information technology system are extremely extensive and rich, and the connotation and meaning are extremely broad and profound. It has the knowledge modernization of educational ideas, the life-long educational information service process, the spatial networking of the educational information learning process, the interaction of educational information learning, The content digitization of educational resources, the intellectualization of educational technology services and technology products, the learning of educational knowledge and the sharing of resources, the organization of educational activities, and the informatization of education are prominent features. The development of higher education informatization is an organic part of promoting the development of education informatization and serving the modernization of social governance. It cannot or cannot be avoided that it will be more or less restricted by the bottleneck of the development of China's higher education technology level and the overall economic and social development ability level, and should be roughly synchronized with the former and the latter.

2. Characteristics of educational information technology system

Under the background of "Internet +", the essence of educational informatization is the digitalization process of information management and information dissemination by using computer technology. In order to realize the construction of educational informatization technology system, campus informatization is the prerequisite for the construction of educational informatization technology system; Only by realizing campus informatization can the development of educational informatization technology system achieve good results. The scientific management of colleges and universities provides a stable guarantee for the development of educational information technology, so that the construction of educational information technology system can develop smoothly and orderly. Secondly, the core part of the educational information technology system: the information resources of colleges and universities should realize the digitization of the educational information
system, and the ultimate goal is to enable students to get comprehensive development, which inevitably requires the digitization of information resources.

The development of educational informatization system is a benign, dynamic and coordinated historical process of scientific development. It is a historical process of continuous reform, development, integration, optimization and improvement of human traditional scientific education thinking concept, educational organization mode, educational means and methods. It is conducive to improving the application efficiency and quality in modern teaching, scientific research, management practice and other informatization activities. "Internet +" will undoubtedly bring new opportunities to the development of educational information system. It not only improves the traditional educational hardware, but also inspires the traditional educational ideas, and integrates some new ideas of the new era into the traditional ideological education. In the process of dynamic development of educational information system, it has been continuously improved and perfected, which has injected new connotation into the educational information system under the background of the new era.

In the historical development and evolution of China's educational information system, there is such a static information organization structure. In terms of its various manifestations and the evolution of its forms, the educational informatization technology system should refer to an organic whole of technologies such as the informatization of ideas, organizational processes, management methods, transaction modes and tool functions. Educational informatization system is a comprehensive and complete system composed of campus network platform system, information resource database and resource database system, informatization integrated application product and comprehensive service support system, informatization standardized product and technical standard system, organization management system, technical prevention and application security evaluation system platform, etc. The educational information technology system aims to comprehensively improve students' information literacy and comprehensive quality, the idea of creating a new educational form that is compatible with the information society and the knowledge economy. The educational informatization technology system under the background of "Internet +" should go beyond the traditional time and space constraints, break through the walls between colleges and universities, and go beyond the obstacles between countries and regions. In other words, the ultimate goal of university informatization is to serve the cultivation of talents in colleges and universities.

3. Construction of educational information technology system

The establishment of educational information technology system is an important social inevitability trend to promote the scientific construction, development and progress of modern information higher education system in the promotion of the current high-speed information society in China. It has also gradually begun to form the main innovative theories of some disciplines involved in the research work in many frontier fields of education system science, psychology, informatics, economics and so on, at the same time, all these new theoretical research results are also of great reference significance to promote the all-round development and construction of the current domestic educational information technology system theory. Therefore, this paper studies the two basic research contents that affect the educational information technology system: the research methods of technical factors and various information non-technical factors. Among them, technical factors generally only refer to those key and important system hardware factors such as transmission network, machine equipment and configuration network that are relied on in the whole process of design, planning, construction and management of various information systems, and important and key software factors such as important network information resources, databases, application software, information standard system design, technical operation and specification requirements, non-technical factors are generally considered to refer to the macro conditions of the system itself, such as thinking concept, information system, management, personnel, culture, society and so on. Obviously, non-technical factors will also have a crucial and important impact on the operation mode and overall effect of the R & D and construction process of the future university teaching information
platform system. If some non-technical factors are not handled well, it will help to speed up the implementation of information system standardization and improve the work efficiency of the overall informatization; On the contrary, it will become a huge resistance, hinder the pace of the informatization process of the university system, and even lead to the ultimate failure of the informatization promotion of the whole university system.

Establishing a more scientific and comprehensive modern information-based school running concept is the current primary political task in the stage of realizing the goal of the standardization of the comprehensive information-based evaluation system of national colleges and universities. The scientific modernization of the higher education system, first of all, must be the further modernization of the concept construction and teaching concept of higher education. Any system construction innovation, system reform innovation and work mode innovation must ultimately depend on the renewal of work concept and education concept. In essence, the concept of information-based teaching is the highest value orientation of school information work. It ultimately affects and will determine the overall understanding, depth, attention and overall investment of our university leaders in the construction of education information system. At present, colleges and universities all over China attach importance to the construction of information-based teaching materials, and there are many of the same problems in the teaching process management, which have a lot to do with our lack of thorough understanding of the connotation, essence and development law of information-based colleges and universities, and even misunderstanding. How to improve the informatization awareness of the whole university, including university informatization decision makers, managers, builders and users, and then improve the effectiveness of informatization construction, is an urgent problem to be solved.

The second is to strive to build an effective and reasonable evaluation index system for the comprehensive informatization development of national colleges and universities. The quantitative evaluation index system for the overall informatization management level of colleges and universities is not only the best objective standard to measure the informatization management level of Chinese colleges and universities, but also an objective guide to guide the informatization management construction and development of colleges and universities around the world. The basic purpose of establishing a unified, systematic, scientific and standardized index system for the investigation, evaluation and Research on the informatization work level of modern university students and other supporting and practical index systems for relevant evaluation means and methods is to correctly, objectively and truly evaluate the comprehensive informatization development level of Chinese university teachers and students, to provide effective service information for relevant central and state departments to further understand the overall informatization level of colleges and universities at home and abroad and make relevant reform decisions; On the other hand, on the basis of ensuring the overall situation of being realistic and pragmatic and overall planning and deployment, it guides colleges and universities at home and abroad to strengthen the construction of information infrastructure. The establishment of a quantitative evaluation index system for the quality of informatization in colleges and universities can help guide the national colleges and universities to promote the further development and improvement of the overall level of informatization. From its micro sense, it can promote Chinese university managers to understand and grasp the essence of university informatization management more deeply, accurately and scientifically, clarify the main purpose of university informatization management, and formulate a more correct, efficient and pragmatic informatization team construction of colleges and universities. The development strategy provides more practical, effective and reliable help for the specific and effective implementation of the goal of promoting the construction of information management in colleges and universities. The research on the evaluation index of educational informatization level in Colleges and universities is also of great significance for guiding the coordinated development of modern colleges and universities and educational informatization work in China, and giving full play to the great role of modern educational informatization technology in Colleges and universities in alleviating the contradiction between supply and demand of general higher education, cultivating top-notch talents
with scientific and technological innovation, and realizing and building a comprehensive learning society. In order to comprehensively analyze and evaluate the current overall education and information technology level of colleges and universities, relatively simple and reasonable objective weighting and synthesis methods are usually used. The main outstanding academic problems of this analysis method are mainly based on subjective weighting. Artificially giving a large information weight will also lead to the examinee overestimating or overestimating the evaluation level of a specific factor of the school, so that the results of the examinee evaluation cannot fully reflect the overall real situation of the information work of college students.

4. Summary

Educational information is based on the reform and reconstruction of traditional education, the development and application of modern information technology and information resources in the field of education, the establishment of an informatized educational environment, and the comprehensive and in-depth use of modern information technology to promote educational reform and educational development. The purpose is to promote the development of education towards modernization. This paper studies and analyzes the educational informatization technology system in terms of concept, development problems, trends, etc., and gives the development strategy for the continuous improvement of the educational informatization technology system in the current era.

References