Research and Exploration on the 2.0 Construction of Educational Informationization in Higher Vocational Colleges

Guo-Can REN and Xian-Bo ZHOU
Book Information Center, Ningbo City College of Vocational Technology, Ningbo, China

Keywords: Educational Informationization, Digital Campus, Vocational Education, Network

Abstract. In order to carry out the nineteen spirit of the Party in depth, speed up the modernization of education and the construction of education power, and promote the development of education information in the new era, the "2.0 action plan for education information" put forward by the Ministry of Education is officially issued in April 13, 2018. This is not a simple change of data. It is an upgrade of educational information. This article, from the main line of talent training in higher vocational colleges, expounds the construction ideas of education information 2.0 in higher vocational colleges, and provides the direction and strategy for the construction of the 2.0 construction of education information in higher vocational colleges.

1. Introduction

In the process of the development of education informatization in China for more than 40 years, mainly in the research of infrastructure construction and educational information application, this stage is called the education informationization 1.0 era, and the education informationization from the 1.0 era to the 2.0 era is not just It is a quantitative change, but a new requirement for the development of education in the new era of socialism in China. The educational informationization has made a qualitative leap in the development concept and construction.

2. The Connotation of Education Informationization 2.0

Education Informatization 2.0 is an education system that fully implements the spirit of the 19th National Congress of the Communist Party of China. It focuses on accelerating the modernization of education and building a new journey of education and strengthening the country. It implements the fundamental tasks of Lideshu people and actively promotes "Internet +" in response to the development of information technology, especially intelligent technology. Education, adhere to the core concept of deep integration of information technology and education, adhere to the basic principles of application-driven and mechanism innovation, establish and improve the sustainable development mechanism of education informationization, and build a network, digital, intelligent, personalized and lifelong The education system will build a learning society where everyone can learn, learn everywhere, and learn from time to time, and achieve a more open, more appropriate, more humane, more equal and more sustainable education. Promoting the overall level of China's education informatization is at the forefront of the world, and truly embarks on a path of educational informationization with Chinese characteristics.

In the process of implementation, we must realize the transformation and reconstruction of China's original education through the deep integration of information technology and education, transform the system structure of education development, reconstruct the new form of modern education that promotes the all-round development of students, and comprehensively enhance the intrinsic quality of education. Really realize a learning society that can learn from time to time, learn everywhere, and learn from everyone.
3. The Impact of Education Information 2.0

3.1 Change in the Concept of Educational Resource Construction

In the past, in the process of resource construction, we generally digitized knowledge resources and constructed multiple resources in three dimensions. In the era of education informationization 2.0, this is still far from enough. We must have a large resource view based on the Internet for teaching resources. This large resource should include both digital three-dimensional teaching resources and students' interest resources.

3.2 The Transformation of Information Technology Literacy Concept

In the era of education informatization 2.0, informatization will shift from technology application ability to information literacy ability. We must not only use information technology, but also integrate information literacy and information technology.

3.3 Transformation of Educational Technology Concept

The original educational technology mainly stays in the construction and application of the learning environment. In the era of education informationization 2.0, the education technology master should be integrated into the learning process, which makes the combination of educational technology and teaching.

3.4 Transformation of the Concept of Education Development

In the past, in the process of education, we have placed great emphasis on the application of the system. The driving force for innovation and development has not been fully exerted and embodied. In the era of education informationization 2.0, we must pay more attention to the development of innovation capabilities.

3.5 Transformation of Educational Management Concepts

In the past education management process, the existing problems are often remedial, first solved after problems occur, no timely analysis of the process, timely adjustment or governance, in the education informationization 2.0 era, we must strengthen process management And control to achieve modernization of teaching management.

3.6 Change in Thinking Concept

In the previous teaching, the thinking of education still stayed in the pre-information era, and some even stayed in the industrial age. In the era of education informationization 2.0, the thinking of education needs to be transformed into information, intelligence, big data and the Internet.

4. Digital Campus Construction of Higher Vocational Colleges Under the Background of Education Informationization 2.0

According to the requirements put forward by the Ministry of Education, the Ten Years of Education Informatization (2011-2020) clearly pointed out that higher education informatization is an effective method and way to promote reform, innovation and quality of higher education, and is the innovation frontier of education informatization development. In the construction of educational informatization, it is necessary to further strengthen the construction of infrastructure and information resources, focus on promoting the deep integration of information technology and higher education, and promote the intelligentization and modernization of educational content, teaching methods and methods, innovative talent training models, scientific research organizations and society. The service mode promotes the inheritance and innovation of culture and promotes the overall improvement of the quality of higher education.

Higher vocational colleges have the characteristics of higher and more professional. According to the requirements of the Ten Years of Education Informationization (2011-2020) and Education
Informationization 2.0, information construction mainly focuses on strengthening research, development and exploration in the following aspects.

4.1 Leaders Attach Importance to Sound Leadership

The Ministry of Education clearly pointed out that the corresponding standards and norms should be formulated for the needs of various types of education reform and development at various levels and the development of different regions. As a higher vocational education college, higher vocational colleges must take the lead and take the lead in the implementation of education informationization 2.0. In order to do a better job in education informationization, the main leaders of the school must attach great importance to it. It is necessary to further improve the leadership system of education informationization, integrate the internal strength of the school, and at the same time take advantage of the specialized services of related enterprises to establish convenience. Establish a convenient and efficient education information technology team. In the implementation of education informationization, the responsible departments are clearly defined, and the planning and development of the informationization of the university is comprehensively coordinated. All localities have made education informatization an important indicator, and they have been included in the assessment indicators of various departments to comprehensively improve the development speed of school education informatization.

4.2 Strengthen the Construction of Information Environment

The digital teaching environment and venue construction such as smart classrooms and simulation training rooms should be further strengthened, and coverage should be further improved. The quantity and quality of digital education resources in vocational education should be covered in the whole process of teaching, and a scientific and reasonable network teaching platform and digital learning environment should be built to integrate information technology and curriculum.

4.3 Informatization Practice Teaching Conditions and Model Innovation

The practical teaching of higher vocational teaching must achieve school-enterprise cooperation, combination of production and education, work-study combination, post-training, practical training, vocational competition, skill appraisal and other internships and training links must establish an information-based training mode, innovative practice teaching content, innovation Practical teaching mode. Promote the deep integration of education and industry, schools and enterprises, professions and positions, teaching materials and skills through the promotion of information technology.

4.4 Information Technology Improves the Social Service Ability of Higher Vocational Education

Another function of higher vocational colleges is to serve the society. Through information technology, the combination of vocational education and industry can be improved. Through simulation teaching software and training bases, it can effectively connect with local key industries and pillar industries. Educational resources should be open to the society, resources and The service is open to the whole society.

4.5 Improvement of Teachers and Students' Information Technology Capabilities

The Ministry of Education has clearly stated that the Education Informatization 2.0 Action Plan is to "the teaching application covers all teachers, the learning application covers all school-age students, and the digital campus construction covers all schools.” The construction of information technology is inseparable from the executive teachers of the action plan. On the one hand, we must participate in the design, selection, construction, application, and evaluation of teaching applications and student applications; on the other hand, we must participate in the selection, processing, and production of teaching resources and learning resources.

Therefore, to achieve the level of information application and improve the level of information technology in schools, whether it is teaching or service, the improvement of teachers and students' information technology capabilities is a prerequisite. Teachers have a higher level of informatization
to be able to do a good job in teaching and service; students with a higher level of informatization can effectively interface with smart teaching.

5. The Experience of Information Construction

Education informatization from the 1.0 era to the 2.0 era is a major measure for the education of the country. Education informatization should be compatible with the overall development of the school. It must be the key work of the school's career development, leading the overall reform of the school; education informatization should be teaching Mode reform, talent training model innovation, and the improvement of teaching quality are deeply integrated; the improvement of information level requires the high participation of teachers and students, and at the same time, in the process of information construction, we should focus on the development of school teachers and the growth and success of students. Higher vocational colleges should closely integrate with industry and enterprises in the development of informatization work, and build a cooperative mechanism for sustainable development of campus cooperation.

References

[1] Ministry of Education of the People's Republic of China, "Education Informatization 2.0 Action Plan" Teaching Technology [2018] No. 6, 2018.4.13.

[2] Ministry of Education of the People's Republic of China, Education Development Ten Year Development Plan (2011-2020) Teaching Technology [2012] No. 5, 2012.03.13.

[3] Liansheng Ge, Cognitive and Practical Exploration of Education Informatization 2.0, 2010.7.12.

[4] Jun Zhu, Accelerating the Informatization of Education 2.0 The Action Plan came into effect, China Education News, No. 008, 2011.5.15.