

Research on Digital Transformation of Higher Education and Reform of Educational Teaching Mode

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Abstract: The rapid development of information technology has provided powerful conditions for the development of higher education. In order to realize the digital transformation of higher education, colleges and universities need to summarize it based on the current education status, teaching environment and the integration of educational resources. By solving the current difficulties of higher education, it is also the focus of improving digital education. Based on this, this paper analyzes the transformation of higher education digitalization and the innovation ideas of education mode, and discusses the current characteristics of higher education, so as to put forward reference suggestions.

Keywords: Higher education; Digital transformation; Education model; Reform

1. The connotation of digitalization in higher education

The digitalization of higher education is mainly manifested in the integration of information and intelligent technology mode in the process of higher education (intelligence education, quality education, psychological education, physical education, etc.), so as to realize the digital transformation. Relevant statistics show that at the present stage, Chinese college students will have one or more online courses. The courses are mainly in the form of network education, and integrate picture information, video information and audio information in practice to complete the penetration of theory. In the “Education Informatization 2.0 Action Plan” also improves the transformation of digital technology, it is necessary to realize the deep integration of technology and education theory. Through the construction of personalized education system, it is summarized from the aspects of technological innovation, capital investment, market environment and so on, in order to provide certain technical support for digital transformation.

2. The difficulty of the digital transformation of higher education at the present stage

2.1 Overall planning is not systematic

At present, the construction of digital network and information system in many domestic universities has achieved good results, and has also promoted the digital reform in the process. However, because the top-level design is not systematic, especially the universities do not pay much attention to the promotion of information network, increasing the pressure of digital network. For example, some educational projects are mainly to respond to the development of The Times, so that the general course online course is the practice subject, but the follow-up content of the online course practice is less planned, which affects the education level. In addition, some colleges and universities lack the construction of education informatization, and do not integrate the information and digital education system with quality education, resulting in a certain lag in the construction of some projects. At the same time, due to the large number of courses in each major, most departments will coordinate according to the educational situation of the department, but the university does not carry out comprehensive management of these contents, which leads to the homogeneity and repetition in the application of educational information, and stimulates the problem of waste of educational resources.

2.2 Insufficient application of digital technology

Under the influence of “Internet +” education, the transformation of digital education has reached a general direction, but many colleges and universities have poor application practice of education digitalization, which can easily lead to difficult problems in the transformation of digital technology. Among them, the difficulties of digital technology application are mainly manifested in the

sharing of information resources, information integration of educational resources and digital data collection of various students, which further affects the smooth development of subject management, educational practice, educational decision-making and other processes. In addition, some universities have invested a lot in education and scientific research, and the process of education management and scientific research practice need the cooperation of multiple departments, but there is a certain time difference between multi-department cooperation and information interaction, which reduces the level of project approval and decision-making in the later education transformation. For example, in the project decision, some decision-making departments need to discuss with experts from other universities and hold special review meetings for information interaction, so as to complete targeted project declaration, and these processes often require more manpower and material resources, which is not conducive to the introduction and penetration of new education models.

3. Digital transformation of higher education and reform measures of education teaching mode

3.1 Determine the direction of the digital transformation of education

In the current process of digital transformation of education, teachers need to clarify the direction and focus of higher education, and combine the following points for practice: First, high-quality reform: by integrating high-quality educational resources, to do a good job in the determination and planning of educational goals, which is conducive to the realization of the innovation of education mode. In this process, teachers need to realize that digital transformation is not the application of digital technology in theoretical education, so teachers need to actively discuss with scholars from all walks of life, build an education system suitable for colleges and universities, and improve the education level. In order to realize the innovation of digital education, teachers should also pay attention to the construction of education quality and education system, especially to highlight the appropriate education core and practice the principle and thought of “development”, which also provides certain technical support for the transformation of education. Second, digital sharing: the sharing of educational resources and educational information, which is also beneficial to the construction of a personalized education model. Therefore, colleges and universities should constantly purchase new educational resources, do a good job in the innovation of educational content, educational mode, teaching materials and teaching AIDS, and do a good job in the integration and innovation of digital resources through the application of “multilateral” sharing management mechanism, so as to provide a certain guarantee for the flow of digital resources. In addition, colleges and universities also need to share the education economy. By actively cooperating with similar colleges, education bureaus and scientific research departments, they can collect a wide range of data in the process of reflecting the advantages of the schools, and then use big data technology for in-depth analysis and summary, so as to reconstruct the new educational structure. In short, in the process of the transformation and development of the new education, colleges and universities need to realize the added value of educational resource sharing, and focus on the sharing of the existing educational resources, so as to build a personalized education system.

3.2 Determine the details of the education digital transformation planning

Specifically, teachers need to pay attention to the following planning and innovation: first, institutions of higher learning need to blend in the concept of digital transformation of intellectual education, quality education, practice education process, by guiding the students to use information technology timely query, upload their own learning status, to let all teachers understand the current education industry practice status and policy input. Second, teachers need to implement the concept of “long-term development planning”, determine the engineering concept of digital transformation, especially to clarify the educational resources suitable for students, and do a good job of resource penetration, so as to facilitate students to learn to apply academic resources in daily study. Third, teachers need to do a good job in the transformation of education. By practicing the direction of the digital transformation work, all departments and teachers are required to maintain a positive attitude, actively participate in the digital transformation work plan, and promote the smooth development of the work.

3.3 Build an integrated data-sharing platform

Colleges and universities need to innovate and establish a data management system, investigate the information media in the platform, discuss the application ideas of MOOCs, cloud management, Tencent Conference and other platforms, and also build a more reliable platform model. To be specific, we should pay attention to the following points: First, colleges and universities need to optimize data processing and solve the problem of information island. By evaluating the information processing methods and information processing priorities at all levels, the potential problems of information island are eliminated. Through the construction of a unified data management and analysis platform, the barriers between various systems can be broken, integrate and collect all kinds

of data, avoid repeated data input and storage, and realize information sharing and exchange. Second, the “integrated” data processing standard is established. By analyzing the application standards of different data in the construction of university information system, and then using the same format for optimization, to complete the data exchange. At the same time, a unified data management and analysis platform can introduce unified technical standards and data specifications to ensure that all kinds of data can be interconnected and used, and improve the quality and credibility of data. Third, colleges and universities mainly pay attention to the key points of data and information perception. By building a comprehensive data pooling platform, it is convenient for managers to monitor the status of teachers and students, so as to provide an effective basis for the decision-making of school leaders and relevant departments. In addition, the platform to students, teachers, courses to conduct a comprehensive and accurate data analysis, in the “life-based” education concept, with the support of the implementation of their teaching methods and methods, fourth, institutions of higher learning need to do each user model, through the online management platform data, to investigate the actual needs of students, it can also provide data support for education reform. In the innovation of education mode, teachers can choose online theoretical education and offline practical education. Practice mainly requires students to complete practical homework in a specific platform, regularly upload their own homework and complete the homework report, which is also beneficial to the optimization of the teaching process. Fifth, managers need to realize the necessity and importance of digital transformation, the reason is the data as the center of gravity of education, need teachers in the data management platform celebration data, assets, in order to better control planning, it also for the late education of scientific research, subject practice, curriculum optimization provides a certain train of thought. At the same time, if some courses are unnecessary, teachers can also eliminate and integrate this part of the courses, and actively introduce digital courses to realize educational transformation. Sixth, teachers also need to reform the current educational environment, management priorities, resource acquisition points and other aspects, by actively eliminating backward management technology and management concepts, do a good job in the acquisition, investment and use of funds, to ensure that technological transformation is more in line with the requirements of current technological development. Among them, teachers can integrate digital library, intelligent campus management, digital classroom and other contents, and build an appropriate classroom space online, to realize the reform and optimization of the educational environment.

4. Tag

To sum up, in the process of digital transformation and education reform of higher education, teachers need to be fully aware of the application points and application ideas of digital resources, and optimize the integration and application of information technology, in order to improve the overall quality of education. In addition, teachers should also pay attention to changing the status quo of education. By integrating educational resources suitable for students to receive, in the process of improving the quality of education, they should pay attention to creating appropriate new forms of digital education, so as to realize the transformation of education mode.

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