Innovation in University Management and the Transformation of University Education in the Digital Era

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Abstract: In today's highly developed society of digitization, informatization, and networking, higher education is facing unprecedented opportunities and challenges. With the acceleration of China's economic construction and the increasingly fierce international competition, the country has put forward higher requirements for the quality of talent cultivation. At the same time, science and technology are advancing rapidly, and the knowledge update cycle is constantly shortening, making it necessary for people to have lifelong learning ability to adapt to rapidly changing environments. This requires us to re-examine traditional teaching models, explore new teaching methods to meet students' personalized learning needs, and improve their overall quality and creativity. Therefore, how to carry out university management reform and actively respond to the impact of the digital age has become an urgent problem that every university needs to solve.

Keywords: Innovation in University Management; Digital Era; Reform of University Education

1. Introduction

With the rapid development of information technology and the Internet, higher education is undergoing digital transformation. In this process, how to better achieve the goals of teaching, scientific research, and social services has become an urgent problem that needs to be solved in front of us. Therefore, this study aims to explore the role and implementation path of university management innovation in the transformation of university education in the digital era. Through in-depth analysis of the main problems and causes of current university management in China, combined with the latest theoretical achievements in relevant fields at home and abroad, some feasible suggestions are proposed to provide useful references for promoting the sustainable and healthy development of higher education in China. This article adopts the methods of literature review, case analysis, and logical induction for research.

2. Theoretical Foundation of Innovation in University Management and the Transformation of University Education in the Digital Era

2.1 Relationship between the Popularization of Higher Education and the Popularization of Higher Education

The popularization of higher education refers to a policy of education popularization implemented by the state to meet the needs of the people to receive high-level, high-quality, and diversified higher education after a certain stage of economic and social development. The popularization of higher education has made significant achievements since its implementation in China, but it also faces some problems. With the rapid development and wide application of information technology, digital transformation has become a common trend in all walks of life [1]. For higher education, Digital transformation is both a challenge and an opportunity. How to use digital means to promote the modernization of university governance system and governance capacity and realize the connotative development of higher education is an important issue that needs to be solved at present. Therefore, this study will start with the popularization of higher education to explore the relationship between it and the popularization of higher education, and then analyze the impact of digital transformation on higher education and the countermeasures.

2.2 Innovation in University Management Work

University management refers to the process of coordinating human, financial, material, and other resources to achieve

established goals through functional activities such as planning, organizing, implementing, and controlling in a specific organizational environment. With the rapid development of information technology and the continuous deepening of higher education reform, the traditional management mode of universities is no longer able to meet the needs of talent cultivation in the new era, so a series of management innovation is needed. Firstly, it is necessary to establish a people-oriented concept, attach importance to students' personalized differences, and focus on cultivating students' autonomous learning abilities. Secondly, it is necessary to strengthen institutional construction, establish and improve various rules and regulations, and strictly implement them to ensure the normal operation of teaching order. Once again, we need to optimize resource allocation, improve asset utilization efficiency, reduce educational costs, and enhance the core competitiveness of the school. Finally, it is necessary to strengthen service awareness, build a harmonious teacher-student relationship, and create a good campus cultural atmosphere.

3. Innovation in University Management and the Implementation Path of University Education Reform in the Digital Era

3.1 Based on Information Technology

With the rapid development of information technology and the Internet, higher education institutions must actively respond to the digital transformation. In this process, new technologies should be fully utilized to improve work efficiency, improve service quality, and enhance organizational competitiveness [2]. For example, the establishment of online learning platforms or the use of advanced technological tools such as virtual reality can promote students' autonomous learning. Data analysis and mining techniques analyze a large amount of student data to better understand the characteristics and needs of each student, and provide more accurate personalized training plans. The use of artificial intelligence technology to assist decision-making makes the management decisions of higher education institutions more scientific and efficient. In addition, emerging technologies such as cloud computing, the Internet of Things, and big data can be utilized to build an intelligent campus ecosystem, achieving interconnectivity and optimized configuration of various resources within the school, and improving the operational efficiency and management level of the entire school.

3.2 Based on Network Technology

With the continuous emergence of new concepts such as "Internet plus", big data and cloud computing, the field of higher education is also actively exploring how to apply these emerging technologies to the daily operation of schools. By establishing a digital campus system, students and teachers can have a better service experience on campus while improving work efficiency. In addition, advanced technologies such as the Internet of Things and artificial intelligence can be utilized to optimize the allocation of school resources and improve the quality of education. For example, the "Smart Campus" project being promoted by East China Normal University aims to create an intelligent learning environment that integrates learning, life, and scientific research. This project covers multiple aspects such as one card, book borrowing, academic management, and personnel file retrieval, greatly facilitating the teaching and learning of teachers and students. In addition, the "paperless office" system launched by Tsinghua University and the "online course learning platform" developed by Peking University are all new management models developed based on modern information technology. The above cases indicate that the construction of digital campuses has become one of the important directions for the current reform and development of universities.

3.3 Taking Management System as a Guarantee

In the process of digital transformation, the school needs to establish corresponding rules and regulations to regulate and guide the behavior of teachers, students and staff. Firstly, it is necessary to develop a clear development strategic plan and translate it into concrete, actionable, and guiding implementation plans. At the same time, it is necessary to strengthen the interpretation and publicity of various policy documents, ensuring that all faculty and staff can deeply understand the spirit of relevant policies, and actively promote the reform process. In addition, attention should be paid to improving the internal governance structure, strengthening the construction of power operation restriction mechanisms, and forming a scientific and effective decision-making system and execution mechanism. In addition, with the rapid updating and iteration of information technology, schools need to continuously optimize information management systems and platforms, improve data quality and processing efficiency, in order to better support the development of teaching, scientific research and other business activities. This requires schools to have advanced information technology concepts and methods, as well as a professional talent team to promote the smooth progress of information technology work [3]. Therefore, the school can improve the overall information literacy level of the school by

introducing or cultivating a group of compound talents who both understand information technology and are familiar with the laws of higher education. We can also increase investment to support teachers in participating in various training and academic exchange conferences, broaden their horizons, enhance their own qualities, and better adapt to the new needs of university education in the digital environment.

3.4 Taking the Management Team as the Core

Against the backdrop of rapid development and widespread application of digital technology, higher education institutions need to constantly update their organizational structure, workflow, and personnel quality. This requires university leaders to have keen insight and judgment, and be able to discover and solve problems in a timely manner. At the same time, it is necessary to have strong communication skills and teamwork spirit, be able to coordinate the relationships between various departments, and promote the smooth completion of various tasks. In addition, digital talents are also one of the important guarantees for promoting innovation in university management. Therefore, universities should actively introduce high-level teachers and students with relevant professional knowledge and skills, strengthen the training and improvement of existing employees, and improve the overall business level. Only in this way can we better adapt to the needs of the digital age and promote innovation in university management to a new level.

Conclusions

Through the analysis of digital technology, higher education and university governance, this paper discusses how to realize the innovation of university management in the process of digital transformation. Research has shown that with the continuous acceleration of information technology, traditional forms of university organization are no longer able to meet the needs of social development. Therefore, it is necessary to actively explore new forms of university organization to meet the requirements of the digital age. At the same time, we should also see that although digital technology has brought many opportunities to universities, there are still some problems that need to be solved in the practical process. For example, some teachers are not yet familiar with digital teaching methods; students' acceptance of online learning environment is not high, etc. These issues require joint efforts from all parties to solve. Only in this way can we better promote the sustainable development of China's higher education industry.

References:

[1] Liu Yao. University management innovation and the change of university education in the digital era [J]. Higher Education Management, 2008:32.

[2] Jin Bo, Cai Minfang. Change and innovation of higher education in archives in the era of big data [J]. Archival Research,2016:12-17, total 6 pages.

[3]Yu Caixia. Change and innovation of professional education in information management in the digital era [J]. New West (Theory Edition),2011:149+163.