

Present Situation and Development Trend of Information Construction of Educational Management in Colleges and Universities

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Abstract: In the era of educational informatization 2.0, colleges and universities introduce information technology into teaching management and establish a systematic and perfect teaching management system, which has become an inevitable choice for colleges and universities to implement talent training strategy and realize innovative transformation of teaching development. Based on this, starting from the current situation of the informatization construction of teaching management in Colleges and universities, this paper considers the problems existing in the current construction and development, analyzes the development trend of teaching informatization, and then explores the corresponding development path in combination with the reality, in order to improve the informatization construction level of colleges and universities and smoothly enter the era of educational informatization 2.0.

Keywords: Teaching management; Information construction; Present situation; Development trend

1. Introduction

In 2018, the Ministry of Education issued the education informatization 2.0 action plan, which defined the establishment and improvement of the sustainable development mechanism of education informatization; In the same year, the guiding opinions on speeding up the construction of “double first class” in Colleges and universities again emphasized the task of promoting education in depth, integrating information technology, intelligent technology and education, and building a new mode of talent cultivation under the condition of “Internet plus”. At present, under the background of this era, colleges and universities in China actively invest in the information construction of teaching management and actively explore the path of teaching management from 1.0 era to 2.0 era. Of course, the informatization construction of teaching management in Colleges and universities must be long and arduous, and a comprehensive analysis of the current development situation and thinking about the development trend are the basic premise to explore the development path.

2. Current situation of information construction of educational management in Colleges and universities in China

2.1 The education management stage is dominated by manual operation and supplemented by stand-alone software processing

In the early 1990s, due to the lack of domestic computer software and hardware resources, especially the lack of computer network resources, the educational management of domestic colleges and universities is still mainly manual operation. Although most colleges and universities have introduced computers into educational management, their application scope is mostly limited to low-level applications such as document processing^[1]. Due to the shortcomings of the flat file database development system, these application software developed by it have poor fault tolerance and reference integrity, let alone compatibility. In addition, because the flat file storing data is structured at the operating system level, it is easy to cause data loss and disclosure, and is also easy to be damaged by computer viruses, which can not meet the needs of a large number of data processing and data security. At the same time, the plane data files of the single machine can not realize effective data sharing and concurrent access processing, resulting in the isolated and single information processed by these management software. In the education management work of each department, a large number of manual operations still need to be relied on. Therefore, it is decided that the manual operation can only be dominated at this stage, supplemented by the single machine management software.

2.2 Popularization status of information construction of educational management in Colleges and universities in China

At present, the vast majority of domestic colleges and universities are carrying out education management informatization in combination with their own school conditions, but the construction pace and scale are large or small, and the construction level is high or low. Of course, the implementation results are different. But generally speaking, after a period of efforts, the overall construction

level of education management informatization in Colleges and universities in China has made considerable progress^[2]. From the overall situation of the implementation of educational management informatization in Colleges and universities in China, due to the limitations of basic school running conditions such as teachers, venues and laboratories, the full credit system is still in the exploratory stage in the educational management of colleges and universities in China. Most colleges and universities in China have not yet implemented the full credit system, but actually implemented the educational management mode of academic year credit system. It is in the transitional stage to the complete credit system. Therefore, at this stage, the education management information construction of most colleges and universities in China is also based on this education management model.

3. Development trend of information construction of teaching management in Colleges and Universities

3.1 Intelligent trend

The informatization of teaching management is mainly reflected in the development and application of the Internet. The use of big data is aimed at each part of teaching management and promotes its development in the direction of intelligence. Nowadays, the establishment of virtual reality, augmented reality, programming language and database^[3]. These have been reflected and achieved remarkable results in the teaching management of colleges and universities, and will gradually become the default existence in the teaching management of colleges and universities. Moreover, most colleges and universities have established various “check-in learning” platforms in teaching, such as “U campus”, the software for English learning, “creating employment cloud classroom” and “excellent campus” of public elective courses. The wide use of these platforms reflects a development direction of teaching management informatization in Colleges and Universities in the era of big data.

3.2 Sharing trend

Colleges and universities have reached cooperative and friendly relations with many education platforms in order to share resources and provide better services for students. For example, the establishment of the school’s electronic library is funded by the school to purchase learning materials. Students can browse academic journals, magazines, interested books and other materials that originally need to pay a certain fee through the school library for free, which not only stimulates students’ learning interest, but also indirectly facilitates the management of paper books. Another example is the school’s “all-in-one card” service^[4]. After entering students’ information, they can enjoy one-stop services such as access control card, meal card, water card and campus card. At the same time, there is the logistics service system of relevant app, which can be fed back by students at any time, and managers can also maintain data in time. The development trend of resource sharing plays a powerful role in improving the efficiency of teaching management.

3.3 Data trend

Big data is playing a more and more important role in today’s society, which is also shown in the information construction of teaching management in Colleges and universities. The digitization mentioned here includes two aspects. One is non explicit data statistics, such as quality evaluation of teaching work, inspection of teaching results, etc. Second, the statistics of students’ usual performance assessment, attendance times and teaching hours.

3.4 Trend of division of labor

The relevant staff of teaching management in Colleges and universities have a clear division of labor, refine the tasks, assign responsibilities to people, and better cooperate to complete the relevant information management work. Of course, the ultimate goal of division of labor is still to integrate resources and create a good teaching environment for students.

4. Conclusion

To sum up, under the new situation of educational informatization development, colleges and universities should face up to the current situation of teaching management informatization construction, analyze the problems encountered in the transformation of teaching management from traditional mode to informatization mode, understand the development trend of teaching management informatization construction, explore construction strategies from many aspects, improve the informatization system, and promote the efficiency and efficiency of teaching management in Colleges and universities Orderly operation.

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