Problems and Countermeasures in the Construction of Teaching Management Informatization

Yuanyuan Tan

The University City of Jiangning, Nanjing, 211169, China

Abstract: *China is in a critical period of teaching reform and the development of network information technology, which has become a decisive factor in the management of colleges and universities. At present, there are some problems in the formalization of teaching management in colleges and universities. The teaching management personnel should attach great importance to them, actively participate in solving these problems, and make reasonable and scientific planning to ensure the formalization construction of teaching management. It can continuously improve the comprehensive quality of teaching management personnel and update their hardware facilities to make teaching management more scientific and modern.*

Keywords: *Teaching management, Information system, Existing problems and countermeasures*

1. Introduction

With the development of network technology and efficient management reform, the original university education management system has many problems and is facing higher challenges. At the same time, it also puts forward higher requirements for the reform of higher education and the construction of teaching management information. In order to adapt to the teaching management under the new situation, people must realize three key points: standardization, formalization and networking. The internationalization of teaching management is based on computer technology. At present, the university has carried on the systematic enhancement to the teaching management internationalization, carries on the conformity to the teaching management information. The collection, the processing, the maintenance, and the use has the profound significance. At present, the internationalization of teaching management has been modernized. Many methods have been used in the construction of internationalization for teaching management in colleges and universities, and great achievements have been made in this respect. However, there are still many problems in the construction of teaching management formalization due to the complexity of information processing technology.

2. The necessity of the construction of teaching management information

With the popularization of teaching, the national higher education has become universal. The number of students in most colleges and universities has reached more than 10,000. The colleges and universities have set up many majors, and there are many kinds of majors. Therefore, the task of teaching management is very heavy. This poses a higher challenge to the construction of teaching management formalization. Under the new situation, the teaching management internationalization still stays in the past times and is difficult to meet the modern needs. After the expansion of the school enrollment, the number of students is large and there are also big problems in the construction of teaching management information. There is a serious shortage of teachers and there is no more efficient teaching management operation system. It has no unified teaching resources and some equipment. Therefore, the construction of teaching management information is extremely urgent. In order to meet the basic requirements of the school after the expansion of enrollment, it is necessary to improve the operation mechanism of teaching management and build the utilization rate of efficient equipment [1]. The Education Information 2.0 Action Plan is guided by Chinese leadership on socialism with Chinese characteristics for a new era. It connects with the 19 major spirits of our country, actively promotes the concept of combining the Internet with education, and improves the sustainable development mechanism of education formalization. Furthermore, it has promoted the development level of China's education formalization, led the world in education formalization, and explored a development road of education formalization that truly belongs to the characteristics of China.

How to further reform the informationization of teaching management requires managers to think and study more. We should study the rules of teaching management, improve the work efficiency and management level, and promote the construction progress of teaching management information. This is the problem we need to solve now. How to promote the informatization of teaching management needs to learn from the 2.0 action plan of education informatization, which is a large platform to combine the Internet and education and to promote the transformation of educational resources.

The construction of teaching management informatization is to break through the previous shackles to improve work efficiency, enhance management level and improve work efficiency. The information construction and the improvement of the network should be solved as soon as possible in the information construction of teaching management. For colleges and universities, credit system management should be implemented as soon as possible to speed up the construction of network information.   There are many areas that we need to learn from. People need to optimize the service mode and ability of platform and education. Carrying out the innovation of wisdom education can reform the teaching content and methods to improve the teaching level.

The characteristics of teaching management informationization are particularity and complexity, involving a very wide area, and related to the operation of university teaching management system. The information about teachers' and students' courses, as well as the teaching quality resources, is very huge. The data control requirements are very high. Therefore, it is very difficult to develop a comprehensive management system. The construction of teaching management information needs to be supported by a safe operation management system[2].

The management information system of colleges and universities reflects the level of colleges and universities and is an important manifestation of modern teaching management. With the improvement of education and the continuous increase of teaching scale. With the improvement of education and the continuous increase of teaching scale, it has become a necessity to solve the daily teaching task of information technology in teaching management in colleges and universities.

3. Problems in Informatization Construction

3.1 The construction of teaching management software system is unreasonable

The planning and design of the teaching management system should focus on the teaching staff, should proceed from the actual situation, consider the practicality of the system, and meet the needs of higher education reform. The design of the system has great limitations, and it results in that the educational administration system is not practical and normative.

Many universities entrust out-of-school companies to design and research the teaching management system, while the school departments seldom participate in the development. As a result, out-of-school companies do not really understand the needs of the school system. The design developer's thinking of the educational administration system is not clear enough and lacks consensus. The programmer's cognition of the educational administration system stays on the surface, does not deeply understand the information construction, and does not fully understand the inner aspects of the educational administration work. Therefore, it is difficult for the programmer to do well in the development of the educational administration system. The developed software has no connection and only stays on the surface. It is difficult to meet the needs of the educational administration management system in colleges and universities[3].

3.2 The accuracy of basic information needs to be improved

The design of teaching management system should be accurate when providing information. As it is the operation of staff and students, it should proceed from reality and the database must be accurate. Because the adjustment of teaching plans and the changes of courses are relatively fast, it is very difficult to make statistics and analysis of information.

3.3 The overall quality of the educational administration team needs to be improved

In the design of educational administration information system, we should proceed from reality. The key is the quality of educational administration administrators because only administrators with high comprehensive quality can make the work information play a real leading role. At present, there are many

cadres in the administrative departments of colleges and universities who can only deal with ordinary work. They do not have high technical requirements and are more casual in their work. This is the modernization requirement of higher education reform because the educational administration personnel do not have high comprehensive quality.

3.4 Inadequate hardware facilities

With the information construction in colleges and universities, the phenomenon of reforming running schools is becoming more and more common, which provides new problems for the educational administration system in colleges and universities. Therefore, higher-level facilities and computers are needed to solve the problems. Accurate and efficient processing, analysis and processing of information can make the whole educational administration system well managed. However, the actual situation is that many colleges and universities do not pay attention to the investment of hardware facilities, and the funds still stay in the seemingly backward hardware facilities, which affects the efficiency and progress of educational administration.

4. Countermeasures to Solve the Problem of Teaching Management Informatization

4.1 The establishment of a people-oriented management thinking

For the users of the teaching management information system, the active cooperation of teaching management personnel and the teachers or students is required to effectively implement the system, and the joint efforts of teachers and students are required to make the information obtained by the system accurate. In the promotion of teaching management information system, there are many problems and improper operation, which need the active cooperation of teachers and students to make the teaching management system play its maximum effect. Increasing publicity efforts can make the majority of teachers and students to support the teaching management information system. At the same time, management personnel must be familiar with the operation process to avoid that teachers and students have the problems. In order to help teachers and students solve problems, teachers and students should stand on the position of strengthening the construction of information technology to promote teaching management and the promotion of information technology[4]. The requirements of the Education Information 2.0 Action Policy are to put people first, integrate innovation, accelerate development and promote the reform of teaching resources. Education Information 2.0 can establish the concept of digital education, improve the application level of digital coverage in schools and the information quality of teachers and students, build a big platform for internet and education, and strengthen the transformation of educational resources.

4.2 Decision-makers attach great importance to and actively participate in the construction

It not only needs the active participation of teachers and students but also pays attention to the decision-makers and is the premise for the construction of teaching management system in colleges and universities. The teaching management information system is not only a matter for the educational administration department, but also a key point for the entire university management. On the one hand, the establishment of university teaching management information system is a very complicated project, and the investment is huge, involving a wide range of aspects. For the operation and establishment, as well as the operation procedures, rules and regulations, etc., they need to be adjusted and improved step by step. Therefore, they need the attention of decision makers. Decision makers not only need to participate in the research and development of the system, but also need to ensure the supply of funds and the allocation of equipment, which all require the input of decision makers.

4.3 Scientific planning and rational implementation

For the development of colleges and universities, it must be carried out from a complete teaching management information system, which is the top priority in the construction of the system. Colleges and universities must carry out systematic development as soon as possible. We should not only develop our own information system, but also learn from the experience of other foreign universities. We should consider not only its practicality, but also the social trend. For the implementation of the action plan of Education Informatization 2.0, it is very important for the popularization of digital resources services and the coverage of online learning space. It is necessary to carry out reasonable planning and service

construction, establish standard construction of digital campus and innovation of intelligent education. Carrying out systematic development from education management, students, teachers, computers, networks and other factors can ensure the standardization of educational administration system. For the later guarantee, it should also be considered, so as to solve the system problems in a timely manner[5].

The planner of educational administration system must participate and develop the whole process. Under normal circumstances, the educational administration system should be familiar with computers and solve problems when students and teachers have problems. When designing the educational administration system, we should consider its practicability and easy operation, which is the key point of development. In the process of development, guidance and supervision must be provided so as not to cause a large amount of investment. The educational administration system should be equipped with a professional who is familiar with computers for daily development, and can become the administrator of the system, thus accumulating valuable experience for training technicians in the future. Scientific planning needs to draw lessons from emerging technologies. The plan proposed in China's Education Information 2.0 Action Plan can effectively carry out the construction task. Improve the level of education management information and optimize the education business management information system. Make full use of cloud computing, big data and artificial intelligence and other emerging technologies to promote the construction of teaching management information.

In the process of education development in Shandong Province, Shandong Province carried out the implementation of the Education Formalization 2.0 Action Plan. On August 13, 2019, Shandong Province issued the Education Formalization 2.0 Action Plan to carry out the education reform. In combination with the Education Formalization 2.0 Action Plan issued by the Ministry of Education, Shandong Province has made clear the direction and objectives of the future work and added some new contents to the action, which conforms to the reform in Shandong and promotes the development of education in Shandong.

4.4 Ensuring the accuracy of basic information

In our work, we should improve the accuracy of basic information and be accurate and reliable in information, data and policies. The accuracy of the work is the premise to ensure the normal operation of the teaching tasks. For students, teachers and schools, it is also a test and a reflection of their own responsibility. We should start with the accuracy of our work and ensure the three requirements: the accuracy of the first course, the accuracy of our grades and the accuracy of our status as a student. We should conscientiously implement the provision of courses and other aspects, strengthen the supervision and guidance of each department's performance management, and solve and reply to the problems reflected by the students. We should do a good job in details and be more precise and meticulous. In the process of information construction, the teaching management information system in colleges and universities should be handed over to the responsible management personnel for unified operation. The teaching management personnel should be responsible in the spirit and focus on the school teachers and students to manage the schedule.

4.5 The improving of the overall level of educational administration team

With the rapid development of higher education, many schools are carrying out teaching reform. For teaching management, the promotion and application of teaching management information system are also deepening. Many educational administration personnel are not doing very well in many aspects and are not really adapted to the requirements of the teaching system. Therefore, colleges and universities must strengthen the comprehensive quality of educational administration personnel, improve their overall level, and carry out good ideological and moral education and professional skills. They are trained with modern educational management knowledge and instilled with teaching concepts to improve their overall quality and professional level. First of all, the school should strengthen the training of teaching management personnel, carry out point-to-point training for management personnel, and strengthen their ability training for assessment. Teaching management personnel must adapt to the needs of social development, improve their professional level and comprehensive quality, learn the relevant professional knowledge of computers, expand their knowledge, to easily control modern information technology, to solve the teaching management information system. It is also necessary to cultivate the enthusiasm of its personnel so that they can work and study conscientiously and responsibly.[6]

4.6 The updating of the hardware facilities of the educational administration system

With a good system, there is also a need for complete hardware facilities. With the rapid development of network technology and the upgrading of hardware facilities, teaching management hardware facilities should also be upgraded, otherwise they will fall behind the average level. It also affects the enthusiasm of the educational administration staff and it leads to some reasons such as the lack of smooth information resources and the decrease of work efficiency. Therefore, we should improve its hardware facilities, increase the efficiency and quality of educational administration, and mobilize the enthusiasm of its management personnel. This requires universities to invest a large amount of funds to upgrade the backward hardware facilities in order to adapt to the modernization of an efficient educational administration system.

5. Conclusion

From the information construction of teaching management, both universities and enterprises should establish their own set of information systems. Only a good and perfect system can be better managed. It not only requires the teaching management personnel to abide by the rules and regulations, but also needs to be proficient in computer technology to perfect its teaching system. In the construction of teaching management formalization, we can draw lessons from some important spirit of Education Formalization 2.0 Action Plan, which is very helpful to our construction. In this process, the construction of teaching management information must be put in place, which is a necessity for the construction of the system. This has laid a solid foundation for better management of colleges and universities. Therefore, we must solve the construction of teaching management information, otherwise there is no way to arrange teaching. We will put the Education Formalization 2.0 Action Policy into practice, strengthen management and promotion, strengthen leadership innovation mechanism and investment, and ensure the smooth implementation of the plan.

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