A Study on the Promoting Effect of Higher Education Informatization on the Reform of Teaching Management

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Abstract: In the current higher education, there is a very common phenomenon, that is, the informatization of higher education, and the role of the higher education informatization in promoting the reform of teaching management in colleges and universities is also very important. Based on this, this paper will study the promoting role of higher education informatization in teaching management reform, so as to realize the teaching management reform of informatization.

1. Introduction

The birth of information technology in the 1960s was actually the origin of information technology, and because of the rapid development of information technology, it has a very close connection with human beings, and then there is information management and information education. And education informatization first appeared in the 1990s, to today's history has been more than 20 years. Although there is still no definite conclusion about education informatization so far, there is already the concept that education informatization is the application of information technology in teaching and management in colleges and universities[1]. At present, the hot spot in the reform of education in China is the reform of teaching management in higher education. Moreover, the information-based teaching management can not only help the renewal of the teaching management in colleges and universities, but also promote the effective improvement of the teaching management level in colleges and universities to a certain extent. Therefore, under the background of information age, the teaching management of information higher education has become an inevitable trend.

2. Building a Climate of Reform

Higher education informatization is a very complex systematic project that includes many information elements, such as education content, education idea and education mode. In this project, teaching management reform is only part of it. In the informationization of higher education, colleges and universities need to take the reform of teaching management as the starting point to create a good information atmosphere, and to realize the effective promotion and development of the reform of teaching management. Therefore, colleges and universities should first carry out the contents of study, life and management on campus, and present them in the form of information. In the process of presentation, the information can be applied both in teaching activities and in teaching management. It can be seen that the information database constructed by the school has a good foundation for the information of the later teaching management. Secondly, informatization is a systematic project, so colleges and universities need to work out detailed strategic planning when promoting education informatization. Only when colleges and universities make the corresponding planning well and complete, can the information work be carried out in an orderly manner. And in the formulation of planning, because the daily affairs of colleges and universities also include teaching management, so teaching management is also in the strategic planning, and with the

student management, teacher management and other content information is very close. Therefore, if we want the higher education informatization, we must construct the reform atmosphere and reform prospect well, so as to realize the effective reform of teaching management. Finally, higher education informatization also needs colleges and universities to improve their own level of information use, and the existing information technology and management system to maximize the use, so as to achieve the goal of carrying out the future teaching management reform smoothly.

Figure 1 Reform of teaching management

3. Perfect the Teaching Activities and Innovate the Management Means

3.1. Improving Teaching Activities

In the traditional classroom teaching, the teacher is the main body, the classroom teaching is the main body, the knowledge uses the teaching material way to pass to the student[2]. This kind of teaching method, whether it is teaching content, teaching idea, teaching means or teaching environment, is very lagged, so that the classroom teaching effect has not been improved. But the teaching information is different, it can perfect the teaching activities from many aspects, so as to achieve the goal of improving the teaching efficiency under the condition that the teaching effect can not be improved. First of all, take the teaching content for example, the traditional teaching is mainly paper teaching materials, and education information can break through such barriers, and in the teaching process into the Internet into a large number of information resources. In this way, it can not only arouse students' interest in learning, but also achieve the goal of breaking the students' learning specialty and subject consciousness, so as to achieve the goal of comprehensive improvement of students' cross-specialty and interdisciplinary learning effect. Secondly, from the perspective of teaching concept, education informatization can liberate the traditional role of teachers and students, and make students and teachers can be in the same position, and then realize the creation of good teaching atmosphere under the condition of changing teachers' own position and cognition. Furthermore, in terms of teaching methods, educational informatization enables college teachers to introduce various information technologies into classroom teaching, such as multimedia technology, which can not only visualize those abstract knowledge, but also be interesting and boring, so as to promote students' interest and enthusiasm in learning. Finally, as far as the teaching environment is concerned, the development of traditional teaching activities is based on the classroom, which is also limited to time and space. However, the information of education can make the teaching activities break free from the shackles of the traditional classroom, but also can be based on the actual needs of students, anytime and anywhere to carry out the teaching activities, so as to achieve the increase of students' learning opportunities, and then improve the quality of students' learning.

3.2. Innovation in Management Tools

At present, the management of students in the teaching management of colleges and universities is based on the teaching activities, so if we want to change the teaching activities in colleges and universities, then we should innovate the teaching management means naturally. For example,

credit system is one of the most common means in the study management of college students at present, and its requirement to students is that students must complete the required credit within a certain period of time, otherwise they will not graduate normally. The management of this credit system is obviously not corresponding to the teaching management in the information age nowadays. This kind of inadaptability is mainly manifested in two aspects, first of all, this management system does not clarify the differences between students, nor can it fully show the differences in the learning process of different students, so that students can only learn in the standard model that has already been set[3]. The second is that this management model is obviously too rigid and lacks some flexibility, and if students are unable to graduate because they have not met the requirements, it is contrary to today's educational purpose. Therefore, under such circumstances, it is necessary for colleges and universities to carry out information education. Education informatization can not only reform the subject and object of teaching, but also give full play to the subjective role of students' classroom, so as to realize the purpose of innovative teaching management means under the condition of respecting students' differences. Of course, in such a process, the teaching management mode should also take the information as the starting point, the management means like the tutorial system management mode innovation, so that we can use the one-to-one tutoring to improve the students' learning management mode, so as to achieve the improvement of the students' learning effect.

Figure 2 University teaching management

4. To Promote the Construction of High-Quality Management Team

4.1. To Establish the Information Consciousness of the Teaching Administrators

In the information age, one of the important indexes to measure whether the current university teaching managers are qualified is whether they have information consciousness. It is precisely because the teaching managers of some colleges and universities lack the correct information consciousness, the importance of information in the current society is not clear, and the strategic role of information technology in the development and teaching management of colleges and universities is not understood, it will make the reform of teaching management in colleges and universities can not be carried out effectively. Therefore, in such a situation, the university teaching managers must in the higher education information environment, in the school management and operation of the important role of information technology to personally experience, and to achieve the establishment of information awareness of teaching managers. The process of this kind of establishment can be divided into two aspects. Firstly, the establishment of this kind of consciousness is of great help to the university teaching administrators' understanding of the role and importance of information technology in today's society, so that the university teaching administrators can actively study and accept the information technology and thus play a fundamental role in the reform of teaching management. Second, the information consciousness can help the university teaching administrators to fully understand the role that the information can play in the teaching management, and can actively apply the information into the teaching management in such a cognition, so as to realize the implementation of the reform of the teaching management.

4.2. To Promote the Improvement of the Ability of Teaching Administrators to Apply Information Technology

The basis of promoting the reform of teaching management is the information consciousness of the managers, and the key factor of whether the reform of teaching management plays a decisive role is the ability of the managers to apply the information technology[4]. Many high-efficiency managers lack the ability to use information technology, so that although they have a clear understanding of the importance of information in the reform of teaching management, they also want to promote the reform of teaching management, but still can not carry out the reform of teaching management effectively. However, university education informatization can provide a good opportunity to improve the ability of managers to use information technology, so that managers can improve their ability to use information technology through observation and operation in the process of education informatization, so as to achieve the goal of carrying out the reform of teaching management.

Figure 3 IT capacity

5. Conclusion

In the teaching management of colleges and universities, informatization has been recognized as an important link in the field of education. It has not only become an important force to promote the teaching management work, but also the development direction of the teaching management work in the future. Up to now, many colleges and universities have carried on the realization to the education informatization, this to the teaching management informatization reform the function is undoubtedly very huge. Because it can not only provide a good platform and atmosphere for teaching management, but also make the teaching and management of colleges and universities different from the previous teaching management, and then can improve and innovate the teaching activities and management means, and achieve the purpose of improving the personal quality of teaching managers in colleges and universities.

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