

The Application and Problems of Modern Educational Technology in the Reform of Higher Education

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Abstract: The use of modern educational technology has greatly promoted the reform process of higher education in China. Applying modern educational technology to college education can not only enrich teaching methods and methods, but also improve students' learning accumulation and learning effect. However, there are still some problems in the process of college education reform. This paper will discuss the application of modern education technology in college education reform, and make a scientific analysis of college education reform in China to find out the main ways to solve the problems, so as to make college education reform more perfect.

1. Introduction

With the rapid development of China's economy, the goal of higher education has changed dramatically. In order to cultivate more outstanding social talents, we have made continuous reform and progress. Based on science and technology, modern educational technology promotes the development of higher education reform through the development and utilization in the field of education. At present, the application degree of modern educational technology affects the development scale and level of higher education. Therefore, how to put the application of modern educational technology into practice and cultivate high-quality talents with high quality, modernization and innovation spirit is an important task of higher education reform.

2. The Significance of Modern Educational Technology to the Reform of Higher Education

2.1 Enriches Teaching Methods

The application of modern education technology in college classroom is more and more extensive. In class, it is no longer a single blackboard, but a rich multimedia. Therefore, it also enriches the means of teaching to a certain extent. In the process of teaching, adopting modern educational information technology can improve students' initiative in teaching, make the whole classroom in an interactive learning atmosphere, better mobilize students' learning enthusiasm, and enable students to actively participate in classroom teaching. In the whole college mathematics teaching, teachers can design more words and videos for teaching, so that students can be as relaxed and happy as games in the learning process, improve the interest of teaching, and further cultivate students' enthusiasm for learning [1].

2.2 Enrich the Teaching Content

In the past, the teaching content was not so rich and interesting, and the application of modern education technology improved the richness and vividness of the teaching content.

2.3 Improve Students' Learning Efficiency

In the process of college mathematics teaching, the communication between teachers and students is interactive. The whole teaching process not only completes the feedback of information and the

teaching of knowledge, but also has some emotional communication. For multimedia, whether students or teachers are a single group, there is no certain emotional communication. Therefore, the emergence of multimedia can not replace the communication between teachers and students in the past. Therefore, in the process of mathematics teaching in Colleges and universities, teachers must have a reasonable grasp of multimedia practice, and then highlight the leading role of teachers in teaching. In addition, no matter when multimedia teaching is adopted, college mathematics teachers also need to be reasonable. In the whole teaching process, teachers also need to pay attention to the teaching mood

Modern educational technology takes students as the main body and deeply implements this idea. Therefore, it is also helpful for students to learn independently, anytime, anywhere, and improve their learning efficiency.

2.4 Improve Students' Enthusiasm in Class

Modern educational technology shows students a variety of pictures and sounds, which makes them more interested in learning. Therefore, it helps to improve the enthusiasm of students in class.

3. The Application of Modern Educational Technology in the Reform of Higher Education

3.1 Application in Campus Network Construction

With the rapid development of network technology, the construction of campus network in Colleges and universities increasingly relies on modern education technology. It is also widely used in the reform of colleges and universities.

3.2 Application to the Sharing of Teaching Resources in Colleges and Universities

The application of modern educational technology in the reform of higher education helps to share teaching resources and break the barriers of teaching resources. We will better achieve equity in education.

3.3 Application in the Construction of College Multimedia Classroom

On the one hand, modern educational technology is used for multimedia display, on the other hand, it is also used for courseware making, which can improve students' learning efficiency and help the planning and construction of multimedia classroom.

4. Main Problems in the Process of Higher Education Reform

4.1 Structural Contradiction between Education and Employment

In recent years, there has been a great deal of talk about the shortage of students in higher vocational colleges. It can be seen from the fact that teachers in higher vocational colleges are responsible for recruiting students every year that the real dilemma is the shortage of students in some higher vocational colleges in China. Vocational colleges are basically colleges, whose admission time is relatively late, and "zero investment" is also common in some vocational colleges. The lack of students in vocational education increasingly highlights the imbalance of education structure in China. However, vocational education has been positioned as "education type directly related to industrial economy". A large number of vocational graduates are needed in the society. However, vocational colleges cannot guarantee the number of students, and how can they guarantee to provide enough high-quality vocational graduates for the society? This phenomenon is bound to cause structural imbalance in employment. Without structural reform, the shortage of students will affect the majority of Vocational Colleges for a long time [2].

4.2 The Lack of Practical Ability of College Students

Innovation is based on practice, and full absorption of theoretical knowledge is also inseparable

from the consolidation of practice. However, some colleges and universities pay more attention to theory than practice, or can not provide practice links for college students, and will not build a scientific and effective practice plan for the real situation of college students, and reasonably cultivate the practical ability of college students. Many colleges and universities still pay more attention to theoretical teaching, but ignore the cultivation of College Students' ability in the process of experiment and practice, resulting in the simple mode of teachers' teaching and students' listening still occupying the main position of college education. The tendency of college teaching to separate from social practice is very prominent. There are few students in school who have really practiced their major, let alone any experience, which undoubtedly leads to the lack of practical ability of college students. It is very difficult for college students who are simply satisfied with the book knowledge but have no practical ability to adapt to the society, and the level of practical ability directly affects the quality of college students, which is exactly the weak link of higher education.

4.3 College Students Lack of Professional Quality and Employment Guidance

For college students, besides mastering solid professional knowledge, they also need good professional quality. But now college students generally lack of professional quality and career planning.

5. Main Ideas of Higher Education Reform

5.1 Gradually Change the Educational Concept of Higher Education

Gradually promoting the change of education concept is one of the effective means of higher education reform. It is necessary to plan as a whole from the national level, realize the diversified development of higher education concept, make the balanced development of higher education and vocational education, improve the resource allocation of vocational education, expand the enrollment autonomy of vocational colleges, so as to meet the needs of the society for applied talents. Increase publicity, improve the social status of application-oriented talents, and create an equally important atmosphere for application-oriented talents and academic talents.

5.2 Add Practice Links and Improve Hands-On Ability

Adhere to the combination of theoretical knowledge learning and practical training, strengthen practical teaching, and pay attention to the training of students' professional skills. Based on theoretical knowledge and hands-on practice, to improve the overall quality of students for the purpose of training, advocate the implementation of independent, self-developed practice teaching, in the process of practice, focus on improving students' practical ability and innovation ability. Deepen the curriculum reform of colleges and universities, further strengthen the mutual penetration and integration of disciplines, and effectively improve the practical ability of college students. Reasonably and scientifically reduce the class hours of theoretical courses and compulsory courses, and increase the class hours of practical courses. Only in this way can we train the students to firmly grasp the theoretical knowledge and practical ability, which is also helpful to improve the comprehensive quality of college students.

5.3 Enhance Career Planning and Cultivate Professional Quality

As a quasi professional, college students are actually the preparation stage of their career, which is the role transition stage from students to professionals. The university should arrange the employment guidance and practice of college students into the teaching program, and have certain credit requirements for students of all grades, so that college students can get reasonable and scientific employment guidance, prepare for the systematic planning of future employment, and successfully complete the smooth transition from college students to social professionals. Strengthen the vocational choice education and train students to establish correct professional consciousness.

5.4 Change the Concept of Education and Focus on Skills Training

Further promote the reform of higher education, change the concept of higher education, open up ideas, in the case of teaching basic knowledge, pay more attention to the cultivation of personal skills. First of all, we should change the traditional cramming teaching mode appropriately, increase interaction, discussion, group formation and multi person cooperation after class. Assign related topics for students to complete independently, guide students to find problems, explore and implement solutions, and finally solve problems. In order to adapt to the new curriculum concept and enable students to truly learn inquiry learning, teachers should carefully design a group of typical cases, questions, pictures and text materials, guide students to gradually explore in-depth and level by level, so as to train students to learn to put forward questions and solve them in the way of research. Adhere to both academic education and vocational qualification training, and promote the employment mechanism of "double certificates" for applied talents. We should increase opportunities for social practice, put learning into practice, improve the ability of social practice, and train all-round talents to meet the needs of the society [3].

6. Key Points and Direction of Education Reform in Colleges and Universities

6.1 Cultivate the Ability of Self-Study and Practice of College Students

With the rapid development of economy, the modernization of knowledge is updating faster and faster. Therefore, our society has higher requirements for talents. We need to pay attention to the cultivation of students' independent learning ability, which will greatly help college students improve their quality in the future social work and life, and lay a solid foundation for their future learning career. In the contemporary college education mode, we should train and train students according to their self-study ability, which can realize the teaching goal of talent education in our country. After two years of university study, universities should reform and innovate 60% of the knowledge in the content of education, so as to ensure that students can indirectly contact modern social information during university study and improve their professional skills. In the process of university reform, teachers should attach importance to training students' practical ability. Under the influence of modern education, colleges and universities should reform the cultivation of students' practical ability as the key part of teaching. After the reform of the cultivation of students' practical ability in Colleges and universities, it is found that the traditional teaching mode in Colleges and universities attaches importance to the cultivation of theoretical knowledge and neglects the cultivation of students' practical ability. These factors have caused great obstacles to the education reform work and the cultivation of students' practical ability, and there are some problems in the cultivation of students' practical ability and the education reform work. Many problems, according to the reaction of these problems, colleges and universities should train the practical ability of each student, make the education staff realize the importance of training the practical ability of students, create more practical opportunities for students on the basis of education reform, so as to improve the practical operation ability of students.

6.2 Establish a Scientific and Perfect Administrative Reform System

Under the influence of the development trend of talents in the modern society, the reform of colleges and universities should not only include the teaching objectives of colleges and universities, but also the reform and innovation of the basic construction and logistics management of colleges and universities. Using scientific and reasonable administrative methods can provide better services for college students, teachers and more college staff [4]. According to the process of reform in Colleges and universities, the corresponding requirements for teachers and students are put forward to carry out administrative management reform. For the needs of colleges and universities in the progress of enrollment expansion, as well as in the management of new students' resources and materials, in addition, the service quality of College education should be effectively improved as the basic goal of

college administration.

6.3 Carry Out Education Reform According to the Needs of Talents' Comprehensive Ability

Nowadays, many colleges and universities divide their majors more carefully, which makes the knowledge framework of contemporary students more detailed, and lays a solid foundation for their neighborhood development in the future. However, due to the meticulous division of majors, students have little knowledge in other aspects, which hinders their future employment. Therefore, according to this situation, colleges and universities should not only pay attention to the division of major, but also combine the training of comprehensive talents as an important part, so that not only can they fully master the work skills of their own major, so that students' future social employment problems can be solved, and more compound talents can be trained for the society, so as to promote the sustainable development of China's economy and realize the education of colleges and universities Teaching objectives.

7. Conclusion

All in all, the development of modern university reform is of great significance to the cultivation of modern talents, and it is also of great help to the development of social economy. There are still some problems in the reform of higher education, which need to be paid special attention by the relevant departments. We should put forward corresponding solutions according to the specific problems, and strictly manage every part and process. To solve these problems in the present education reform, the ways could be laying a solid foundation for the cultivation of excellent compound social talents in colleges and universities, realizing the teaching objectives of college education faster, and ensuring the smooth progress of college teaching work. The policy of China's higher education is to adhere to the principle that education serves the socialist modernization construction, serves the people, combines with productive labor and social practice, and cultivates socialist builders and successors with all-round development of morality, intelligence, physique and beauty. Around this policy, in the context of the new era, we need to improve the previous education mode, reverse the education ideas, update the education methods. In order to cultivate excellent college students suitable for the development of the new era, every university must seriously explore. To sum up, the application of modern educational technology in the teaching of colleges and universities is the general trend and the inevitable choice to realize the educational reform of colleges and universities. The application of modern education technology in the education reform of colleges and universities can change the learning content, learning medium, learning atmosphere and learning environment, and greatly accelerate the pace of education reform in colleges and universities. However, at present, modern educational technology has not been fully promoted and utilized, so colleges and universities should seize this opportunity, make use of modern educational technology, and implement it, so as to truly promote the process of educational reform in colleges and universities.

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