

Modern Educational Technology Theory and University Quality Education

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Abstract. Modern educational technology theory is a broad and specific concept. It refers to the theory and practice of optimizing teaching with modern educational theory and information technology. Modern educational technology theory is closely related to university quality education. This article studies and expounds the modern educational technology theory and the university quality education, in order to explore the paths and means to cultivate high-quality talents.

Introduction

With the development of the times and the progress of society, the latest cutting-edge scientific and technological achievements continue to affect people's work and life. As the forefront of the latest scientific and technological information, universities are most strongly and sensitive influenced by the trend of science and technology. At the same time, the university is also the first place for various scientific and technological means. In other words, education is the most tightly linked field of scientific and technological information.

Concept of Modern Educational Technology Theory

The human society has entered the era of information and Internet; the field of education is no exception. Informatization and networking have broken the gap between time and space and broadened horizons and fields for the development of education. Modern education should be combined with modern means. It is particularly important to advocate quality education now. In 1994, the American educational communication and Technology Association published the basic definition of modern educational technology. Educational technology is the theory and practice of the design, development, utilization, management and evaluation of learning resources and learning processes. After this theory was introduced into China, the scholars in our country have re expounded the modern educational technology according to the characteristics of the domestic educational system: In the advanced education thought and theory under the guidance of modern educational technology to make full use of modern information technology, through the design, the teaching and learning process and resource development, utilization, management and evaluation of theory and practice, so as to realize the optimization of teaching. This statement emphasizes the guiding role of educational theory and the extension of teaching methods, and points out the direction for the application of educational technology.

Modern educational technology theory has been paid more and more attention by educators all over the world, and its theory is also in the process of rapid development and improvement. In the modern educational technology theory system constructed by scholars from different countries, cognitive constructivism, learning constructivism and radical constructivism are mainly included. No matter what kind of theory, they are from the perspective of serving students to learn, and strive to cultivate and improve the enthusiasm and initiative of students in learning. In this framework, the process of student learning is viewed as a process of self exploration, cognition, and interpretation of unknown domains. This system coincides with the quality education advocated by our country, and all of them take students as the main body, and try to change the rigid and passive pattern of individual indoctrination in the past.

Role of Modern Educational Technology Theory

Theory is always the guide of practice. We constantly enrich and develop modern educational technology theory, that is, we should have a full and accurate understanding of modern educational technology theory. The theory has been applied to practice and closely integrated theoretical development with practical application.

Modern educational technology theory allows teachers to re position themselves in teaching practice. Teacher is an important pillar of education and teaching work. Based on the theory of modern educational technology learning, teachers should be liberated from the shackles of the traditional mode of education, change the cramming education idea, pay attention to guiding role for students, to improve students' learning enthusiasm. At the same time, modern educational technology theory also puts forward higher requirements for teachers' own qualities. Under the means of information, it is an urgent problem for educators to solve the problem of whether teachers are able to handle the operation of multimedia and Internet and whether they can keep up with the actual requirements of teaching. Relatively, young teachers are more familiar with the means of information teaching, but many older teachers may encounter various difficulties in education and teaching. When faced with such a problem, the teacher suddenly changed himself into a student. How to master these technical means and serve the teaching career is an era topic for the broad masses of teachers.

The modern educational technology theory releases the students' potential and makes them roam freely in the ocean of knowledge and insert the wings of science and technology. The modern educational technology theory transfers the students to the center of the stage through the transformation of roles. They are no longer the passive receiver of knowledge, but the vanguard of the exploration of knowledge and the application of knowledge.

Modern educational technology theory also plays a guiding role in optimizing the curriculum. Modern educational technology theory pays attention to guidance and practice. Guided by this theory, it is necessary to promote the reform of curriculum structure in Chinese universities. Because of the historical reasons and the restriction of ideas, there are some problems such as overlapping of subjects, small proportion of practice courses in elective courses and so on. This is incompatible with the educational concepts of quality education and innovative education, which are out of keeping with the strategic objectives of talent training in china. In view of the above problems, combined with the modern educational technology concept, our university curriculum should pay great attention to the construction of elective courses and practical courses while paying attention to the basic curriculum. Let students in the understanding of the professional knowledge at the same time, have more independent choice. At the same time, schools should strengthen contacts, try to set up inter school exchange courses, so that students out of the campus, extensive contacts, broaden their thinking and broaden their horizons. Of course, this relaxation is not a laissez faire, but rather a higher and more comprehensive requirement.

Modern educational technology theory has changed the traditional concept of school. Under the modern educational technology theory, the campus breaks through the traditional sense of the fence and so on. There are so many places for students to study so that they can acquire knowledge anytime and anywhere. Through network technology, students can cross the country in a flash.

Under the guidance of modern educational technology theory, the traditional teaching process has undergone great changes. The traditional perception of teaching materials, understand material, consolidate and apply the knowledge of several link order continuous combination of educational technology, tangible sound, not only has strong intuition, and be able to observe changes of internal micro world and some things, make students understand and grasp the essence of things.

Relationship between Modern Educational Technology Theory and Quality Education

After years of development, our educational system has made great achievements, but the problems exposed are enough to arouse the vigilance of educators. With the development of society and the progress of the times, society has put forward higher and higher requirements for the training of

qualified personnel. The former theory of heavy indoctrination, light practice ability training, heavy achievement, light quality education model brought about by the abuse of society and employers have been criticized. In order to transport more and more qualified builders for the modernization drive, and to improve the overall educational level of the country, China has vigorously promoted quality education. Quality education, as its name suggests, is to train students' comprehensive quality and ability as the starting point and end point of education and teaching. In a sense, quality education is the result of modern educational technology theory, and modern educational technology theory is the means and approach of quality education.

The main features of quality education advocated by us include: the comprehensiveness of knowledge, the subjectivity of students, the openness and the stereoscopic nature of educational methods. With the development of quality education slogan, the majority of colleges and universities to actively respond and bold practice, to face the modernization, the world and the future for educational goals, and strive to improve the quality and innovation of national comprehensive national strength, in the whole society to carry forward to the development of a new era of education. The proposition of quality education is not only the summary of the development of education for many years, but also the requirement of the change of the times. Under the background of quality education, it is the most basic and the core requirement for students to develop in an all-round way, to emphasize personality training and to cultivate students' creative creativity.

Through the above statements, we can see that the modern educational technology theory and quality education coincide in essence.

Modern educational technology provides the means and means for quality education, including the following aspects:

Massive data storage and rich knowledge forms

With modern technical means for teaching and teaching escort, the teaching process has become flexible and lively. Teachers can store courseware, video and other information in the teaching process in a specific space, and students can access and learn easily. A little bit of information technology knows that, in the current technical level, the mass storage of data is no problem. At the same time, stored information is not limited to the cold dead words, but toward the direction of diversification, pictures, video, audio and other information has long been integrated, ready to be called for by the user to download.

Real time access capability

Real time is of great value in education and teaching. Teachers can understand the difficult and confusing problems of students through real-time communication system, and students can freely communicate with each other and transcend the limitations of time and space. The ability of real-time access weakens the regional constraints in learning and makes learning ubiquitous.

Computer information technology

Computer information technology is a general term for information collection, storage, processing, transmission, processing, distribution and decision support by means of computer networks. Computer information technology is a multidisciplinary cross integrated technology, computer technology, communication technology and multimedia technology, network technology penetration, interaction, and integration. It will form a large-scale spatiotemporal information network characterized by intelligent multimedia information services. In this network, students are no longer an isolated node, but a transit station in the information flow.

Electronic telecommunication technology

Electronic remote communication technology is not only an independent branch of discipline, but also the basis for the development of all disciplines. Electronic remote communication technology is an important supporting means of modern educational technology. It takes computer network and satellite digital communication technology as the core, and has the advantages of freedom of time and space, sharing of resources, opening of the system and easy cooperation. It is different or different places for education, the main means of communication. In the development of modern educational technology, all countries in the world have realized that the sharing of learning

resources and the interoperability of the system are of decisive importance to the practicability and economy of education. In recent years, distance education based on electronic telecommunication technology has been developing more and more rapidly in universities. Because it adopts various multimedia technology and network communication technology, the interaction between teaching and learning is greatly enhanced, the teaching content is intuitive and vivid, and the teaching means are flexible and changeable, and it is widely welcomed.

Artificial intelligence technology

Artificial intelligence is an important branch of modern computer science, it involves computer science, information science, psychology, philosophy, physiology and many other fields, is a new subject, strong comprehensive. Since the twenty-first Century, with the continuous deepening of artificial intelligence research and the development of educational information, the application of artificial intelligence in the educational field has gradually been paid attention to. Many experts and scholars in China have studied the teaching and application of artificial intelligence from different perspectives, and have achieved fruitful results.

Virtual Reality Technology

After multimedia, simulation and computer network, new educational media emerges in the field of educational technology, which is virtual reality technology. Virtual reality is the technology of using computer to simulate the real world. Because it can create a similar social reality environment, users get the feel and experience personally on the scene, which can satisfy the learning media scene and interactive requirements, so the virtual reality technology has a great application prospect in the field of education, virtual reality technology in the field of modern education will become the most promising the "Star" technology.

It provides a good Platform for the Integration of other Teaching Methods

Modern educational technology is a platform, and it has enough interfaces on the basis of integrating the existing technical means. In today's increasingly advanced technology, as long as the standard of other teaching methods can be organic access to this platform system. The system is open, inclusive, and constantly improved and developed.

Relationship between Modern Educational Technology and Creative Education

Modern educational technology is not only a theoretical innovation, but also a practical innovation. From this point of view alone, it is itself a product of innovative ideas. Modern educational technology and creative education complement each other.

Creative education is one of the most important aspects of quality education. Without innovation and development, there is no way to talk about it. It is only empty talk that there is no innovation and improvement in quality. It is useless for us to advocate innovative education. Only by shouting slogans, we must come up with practical ways to change the situation that hinders the development of quality education and hinders innovation and change. Modern educational technology is a very powerful support. Modern educational technology is not immutable and frozen, complacent. From the date of its birth, it has absorbed all kinds of nutrients which are beneficial to education and teaching for its own use. Projectors, networks and other teaching methods gradually replace the traditional blackboard chalk, I believe that in the near future there will be more powerful teaching methods into this system. Modern educational technology itself is calling for innovation, and with its assistance, the vast number of students in the vast knowledge of the ocean, arbitrary sway. In the end, they will use their own learning, understanding, and create more brilliant scientific and technological means, in self-stimulation, self-realization, self-innovation on the road more and more far away.

Conclusion

Modern educational technology theory is closely related to quality education in universities. In the background of advocating quality education and comprehensively promoting the strategy of invigorating the country through science and education, the application of modern educational

technology has very practical significance and value. It is the commanding point and breakthrough point of educational reform. The process of implementation of modern education technology, we should pay attention to and strengthen the students' main role should not be to weaken the role of teachers as the price, but should complement each other, mutual promotion; should increase the overall quality of teachers training efforts to enable teachers to master the latest scientific research results, better for educational services; Pay attention to the development of teachers and students emotion, in the era of network information, the value of the emotional role is easily overlooked, and this often has a great impact on students' learning initiative and learning effect. Machines should not and cannot replace the emotional communication between people; Formulate practical and scientific and effective application evaluation mechanism, so as to collect the opinions of students on Educational Technology in time, so as to improve and improve them.

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