Application of Modern Educational Technology in Teaching

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Abstract: With the advent of the network era and the rapid development of educational technology, the application of modern teaching technology in college teaching has become a world-wide problem. Modern teaching technology can not only liberate teachers and students from traditional teaching concepts, but also provide more extensive learning resources and platforms for students of various majors. Not only break through the space and time distance and limitations, but also face-to-face academic exchanges and information sharing have become an indispensable part of the modern university teaching process.

Keywords: modern educational technology; college teaching; multimedia teaching environment

1 Foreword

With the proposal of the concept of "rejuvenating the country through science and education", the current university teaching in China has achieved unprecedented development and expansion under the impetus of modern technology. As an important symbol of the concept of education modernization and driving force, modern education technology is also an important condition in the process of education modernization, especially in the international education increasingly fierce competition today, many competition in the final analysis is the comprehensive quality of talent selection competition, in view of this, the universities in the process of daily teaching and personnel training, must use all kinds of education means and modern education technology to realize the nature of the whole organization and innovative application.

2 Definition of modern educational technology

The "modern" in modern educational technology includes two aspects: one introduces the systematic view into educational technology, It points out that educational technology is the application of media technology, but also the design, development, utilization, evaluation and management of teaching process and

teaching resources; the second, it emphasizes the application of modern information technology, especially multimedia computer technology, virtual reality technology and artificial intelligence technology in the educational field.[1] So, on the basis of the definition of education technology, according to Chinese actual situation, Chinese scholars put the concept of modern education technology is as follows: modern education technology is using modern education theory and modern information technology, through the process of teaching and learning and resources design, development, application, management and evaluation, in order to realize the teaching optimization theory and practice.

3 The advantages of modern educational technology in teaching

3.1 It is conducive to students' independent learning

Modern educational technology takes the network platform as the carrier to realize the organic integration of students' online and offline learning. Students learning form will be more free, and not limited by time, place, can according to their own interest, learning to choose learning content, to increase the learning initiative and independent selectivity, to improve students' learning enthusiasm has a great help, learning efficiency will be improved.

3.2 The course content is novel and flexible in form

Curriculum design in the form of MOOC, can increase the course flexibility, especially in the MOOC production process, general time need to master in ten minutes, this prompted the faculty on content production "best", show more knowledge essence, to the faculty curriculum design ability put forward new challenges.[2] This course design model has changed the long-term classroom-centered teaching process, and students can use more fragmented time for personalized learning.

3.3 It is conducive to the interaction between teachers and students in the learning process

Using modern education technology can not only to online learning courses, but also for students and faculty with online discussion, interaction, answering, effectively shorten the distance between educators and learners, students can also

discuss through online course platform, or according to their respective interests, hobbies, network interaction group, realize the course content after class, improve the course content cohesion, to promote the improvement of course quality.

4 The application characteristics of modern educational technology in teaching

With the deepening and rapid development of Chinese educational concept and educational innovation, the modern educational technology has almost been taken as an important tool for talent development in the new era in the current teaching process of colleges and universities. At the same time, the integration of "information technology and university curriculum" has become an important support point and an indispensable tool for cultivating talents and improving talents.

4.1 Modern teaching techniques make teaching more active

In the new period of college teaching process, for the dependence on modern teaching technology has increasingly deepened, the new modern teaching technology can not only make originally boring, boring college professional classroom teaching become active, but also can as the realization of the teaching content and teaching goal and the creation of different scenarios. At the same time, under the influence of "Internet +", the teaching information capacity in various professional fields has also been unprecedentedly improved and shared. From the perspective of teaching practice, the application of this modern teaching technology can also scientifically allocate the originally conflicting students 'practice time and teaching time, and lay a solid foundation for students' independent learning and independent exploration by concentrating the explanation time.

4.2 The traditional teaching organization form of modern teaching technology transformation

Traditional college teaching is mainly carried out in the way of class teaching, but under the influence of modern teaching technology, the teaching organization form has undergone great changes. Students not only satisfied with through limited 40 minutes class time for professional learning, at the same time also can use the remote teaching, micro, personalized teaching and other diversified network information technology, can say under the influence of modern teaching technology, the current

college teaching mode has gradually developed into a more three-dimensional, diverse "classroom multimedia teaching system".

4.3 Modern teaching technology can absorb diversified system thinking

As an important feature of The Times in the development process of educational technology, modern teaching technology is more scientific and systematic in the application process of colleges and universities. As a bridge between educational theory and educational practice, modern teaching technology has promoted the development and progress of the whole education era through strong operability and practicality. In the process of the college students can not only use the new concept of teaching technology and related multimedia software to all want to master the technology of bold simulation, bold attempt, at the same time every college students are also able to through the open system thinking to some classroom has not yet fully grasp, understand the theory of knowledge, in the huge amount of reference materials gradually formed a set of unique cognitive road.

5 Problems existing in the teaching of modern educational technology

5.1 Lack of modern educational technology application talents

Related research shows that in the application of modern educational technology and teaching, the learners' thinking has changed the learning atmosphere, deepened the cognition of knowledge, and the teaching quality has been improved accordingly, which has been praised by students. Most teachers realize learning the basic knowledge of modern education technology theory is very important, but also lack of attention in application, and the faculty in the process of using a series of problems, they put these reasons down to the lack of their skills and don't understand the related theory, lead to teaching effect cannot reach the desired purpose, the students also think the learning effect is not good.[3]

5.2 Learning quality and completion rate issues

Due to the different objectives, ability bases and learning methods of choosing online courses, students' expectations for the course are also different. If only the subjective judgment of the students is taken as the basis of the evaluation, then the evaluation results will be unconvincing. The evaluation of the learning quality and

completion rate of online courses has become an important content of the subsequent improvement, which is related to the improvement of the quality and implementation efficiency of online courses.

6 The application and development of modern educational technology in teaching

Under the guidance of modern educational technology, the teaching facilities in colleges and universities have gradually formed a complete set of multimedia teaching system, not only including computer room, multimedia laboratory and multimedia classroom, but also cultivating a group of modern educational technology leaders with both integrity and ability. Under the guidance of these excellent talents, the maintenance and construction of multimedia teaching environment has become an important part of the promotion of teaching work in colleges and universities, but also plays a pivotal role in the development of colleges and universities. At the same time, college teaching in the new environment has broken away from the fixed teacher space, and with the help of the penetration of modern teaching technology, it has gradually formed a more suitable means for the development and progress of teaching.

6.1 The application of micro-course teaching in modern educational technology

The term "micro-course" first appeared in San Juan College in the United States, and was proposed by senior teaching designer Penrose in 2008. Through the evolution and development in recent years, this kind of micro-course teaching has been introduced into various fields of teaching in Chinese universities, and has been widely used through the "one-minute micro-video".[4] For the current teaching in colleges and universities, this kind of "micro" teaching is more applied to some difficulties more, knowledge structure is relatively loose course teaching, each college students can combine their own actual situation and cognitive situation to choose suitable for the progress of repeated thinking, repeated research, laid a foundation for simplifying the complex subject knowledge.

6.2 The Application of MOOC teaching in modern educational technology

With the improvement of modern teaching technology and the popularization of

Internet technology, the teaching method of MOOCs began to blow into various universities in the United States in 2012. Literally, MOOCs mainly refer to stimulate students' cognition through large-scale live open online courses, and through the diversified allocation of teaching channels to enable more students with strong learning intention to obtain the most high-quality, the most convenient and the most massive educational resources through the network platform. MOOC in Chinese colleges and universities in the process of promoting gradually formed the unique advantages, through the universities, teacher to provide the majority of college students with professional, low cost MOOC learning resources, without the limitation by time and space and improve the student's cognitive ability, but also from another side for the poor, daily class limited students provide more professional learning channels, for the national training, conveying more high-quality, diversified talents provides the guarantee.

6.3 Application of flipped classroom in modern educational technology

Since the last century, China has been in a profound transformation in the education field, the core of which is to return the teaching subject to students. At the same time, in this change in the university teachers is not high on the "sage", more cases in the process of college teaching requires teachers must be transformed into "students next to the guide, collaborators and participants", and the role of college students from the traditional "cramming teaching", gradually become a "learning builder". In this teaching environment, must be through flipped classroom construction to gradually improve the teaching process of colleges and universities and under the influence of modern education technology, the university teachers is to fully with the help of teaching video to all kinds of collaborative inquiry, communication interactive new teaching model construction, in order to make the whole college professional learning become more vivid and flexible, in the emphasis on college student participation at the same time to realize students' practical ability, innovation ability and collaboration ability.

6.4 Application of VR technology in modern educational technology

Virtual reality, also known as virtual reality, or "VR", is a computer system that can

help the majority of college teachers and students to experience some virtual scenes personally. Through high-tech information means can not only generate a realistic virtual environment of visual, listening, touch and multiple perception, but also can use the user's special interactive equipment as the medium to form the physical interaction in the virtual environment, and finally form an immersive interactive visual simulation information exchange. As an advanced digital human-machine interface technology, this virtual reality technology can not only stimulate students' interest in learning in various professional fields, but also improve their self-senses and thinking with the help of immersive feelings. Under the action of vision, hearing and even touch, it brings college students a new cognitive thinking.

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