

Analysis on the Application of Modern Educational Technology in Education and Teaching

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Abstract: The application of modern educational technology in education and teaching has further promoted the optimization reform of educational thought, content, means and mode. Nowadays, modern information-based education will directly affect the effective improvement of actual teaching quality and promote the effective allocation of educational resources, thus laying a solid foundation for the development of domestic education. Facing the brand-new education situation, the difficulties faced by teachers are obvious. Therefore, it is necessary for them to strengthen their theoretical study, improve teaching skills and focus on the reform of the existing education and teaching model. This paper mainly expounds the application practice of modern educational technology in education and teaching, hoping to help promote the optimization and reform of educational work.

The object of basic education is aimed at students, and the macro education situation is constantly changing, so, it is necessary to innovate the education and teaching scheme and fundamentally change the existing education and teaching mode, improving the teaching quality. In daily teaching work, teachers should pay attention to broaden students' horizons, expand students' thinking and tap students' potential deeply for their all-round development. Teachers should make good use of the advantages of modern information technology, overcome the shortcomings of traditional education and teaching mode, improving the quality of teaching.

1. Application and Content

(1) With the development of information technology and network, modern educational technology is about to become a new trend in the development and innovation of teaching methods. The traditional teaching quality is very limited because of the limitation of teaching method in time and space. So, it is necessary to use modern educational technology to overcome the defects of the traditional mode. This is also a new test for the professional quality of teachers. In order to make modern educational technology play a good role in education and teaching, teachers should know the following questions: "what is modern education", "what methods should be paid attention to when using modern educational technology", and "how to achieve both teaching interest and teaching quality in this reform". Only after the above problems are clear can teachers control the details of the reform, pass their understanding of knowledge to students, improve their learning efficiency and strengthen their self-control ability. Modern education is extremely important, both teachers and parents also attach importance to education. In the follow-up teaching, teachers need to push forward the optimization reform based on the present teaching practice in this aspect, and finally construct the brand-new education pattern.

(2) Actively promote online learning for students. Online teaching not only overcomes the defects of the traditional teaching model, but also helps students to use the fragmented learning time, and further brings students a new learning experience. Relatively speaking, online teaching resources are abundant and there are many shared resources, most of which can be studied for free, and the teaching resources between schools can be distributed in a balanced way. For a long time, we have had a great deal of understanding on the topic of "education". The most common understanding is that a teacher acts as a giver of knowledge and has the duty of teaching and educating people. In the simplest terms, education is the role of teachers in teaching and educating

people. This traditional way mainly highlights teachers as the main body. With the development of economy, people have more and more extensive understanding of "education", and they gradually realize the importance of education. For students from ordinary families, education is the only way they can change their destiny. An excellent education will help them get rid of their family of origin. There are more and more demands for talents and high-tech talents in contemporary society, but the traditional teaching methods have many shortcomings and are now in a period of change. Education is in a transitional period, from traditional education to a new era, we should learn to integrate and utilize the new emerging education technology, and gradually overcome the shortcomings and shortcomings of traditional teaching model. The sudden outbreak of pneumonia in COVID-19 caught everyone by surprise. Because of the need for home isolation, students can't study in the school. However, with the efforts of teachers and local education authorities, online teaching has become a substitute for students' learning at this stage. Although this is a new test for teachers and students, in the unremitting efforts of all parties, online teaching or into the formal. This is the best embodiment of using modern educational technology to carry out educational and teaching work. In the future, we need to make use of the experience accumulated in this stage to promote the optimization and reform of related work, and then set up a cover for students on-line, off-line high-efficiency learning platform.

(3) We should do a good job in teacher learning activities, and also let teachers learn modern education and educate them in modern ways. Modern education includes many kinds and has many kinds of education. Our generation of teachers in modern education is also very competitive consciousness and sense of teamwork, and we all hope to learn advanced education methods. At the same time, modern education also gives teachers a brand-new view and change of educational methods, and gradually sets up new learning concepts and methods. It makes teachers and students constantly increase their innovative consciousness and ability, and lets them feel happy in the process of learning and teaching, which makes them feel that it is a meaningful and valuable thing, not boring. In the present teaching experience, we know that modern teaching methods will make students pay more attention, feel multiple stimuli, and be more conducive to the acquisition and understanding of knowledge. It will make abstract concepts more concrete, and make students change from perceptual knowledge to rational knowledge, create autonomous learning ability to a certain extent, stimulate students' interest in learning, and form a good learning atmosphere and environment. In addition, modern technology is conducive to promoting heuristic teaching, stimulating students' creative thinking ability and improving teaching effect and efficiency. In short, educational technology work now has a long way to go. We must work hard together without discrimination, overcome difficulties, have the courage to innovate, and make great contributions to modern education.

2. The Advantages and Disadvantages of the Application of Modern Education Technology

Advantages:

With the development of the times and the rapid development of Internet technology, mobile phone network from 2G to the present 5G, all industries have also shown a brand-new speed of development, and education has become a hot topic. The times are advancing, the society is developing, and the drawbacks of the traditional education and teaching model are gradually showing up. Therefore, education innovation is inevitable. China's education has been continuing the traditional education mode, and most schools in China still give priority to offline teaching. The country proposes to innovate the education mode, so that more students who love learning can learn better, experience the fun of learning and feel the happiness of learning. The state proposes to innovate educational methods, so that more students who love learning can learn better, experience the fun of learning, and let them feel the happiness of learning. Using modern education technology, we can bring students multi-sensory stimulation and intuitive learning. In a limited time, we can impart knowledge to students efficiently and with high quality, which greatly improves the teaching quality and enriches the teaching capacity. To speed up the understanding ability of learning and

improve students' cognition so as to shorten students' ability to accept the same content. At the same time, teachers can upload course content through the network, and students can watch it online anytime and anywhere. Modern education not only makes us keep pace with the times, but also makes our country develop better and better. The degree of modern informationization is very high, so good education will keep up with the development of the times. On this basis, teachers can also help them to make good use of their fragmented learning time and improve their learning efficiency through micro-lesson, a novel education model. Compared with the traditional teaching mode, micro-class realizes the optimization and integration of text, picture, image and sound, so it is of great significance. In addition, the application of virtual simulation technology in daily education is also worthy of attention. It can help students to establish an intuitive, three-dimensional understanding of some abstract knowledge, so that they can experience the formation of knowledge, and help them to lay a good foundation in the study of related subjects.

Disadvantages:

Some subjects involved in the experimental teaching contains a lot of high-risk experiments, so there is no way to conduct classroom exercises. If teachers let students operate independently, there may be a risk of safety accidents, so we can try to use multimedia teaching equipment for dynamic display. However, the dynamic display in this aspect will affect students' understanding of relevant knowledge points. Therefore, how to control the teaching quality on the basis of ensuring the teaching progress is a new problem in the application of modern educational technology. In this regard, teachers should first accurately grasp students' interests, and then choose appropriate teaching strategies to promote the optimization reform. Attention should be paid to clarifying the positioning of modern educational technology such as multimedia teaching equipment, and set clear and definite teaching objectives.

3. The Significance of Modern Education

Under the traditional teaching mode, teachers are very strict to the students, which provokes students' psychology of escape and rebellion. So they dare not ask the teacher for advice even if they do not understand the problems in study. In life, they also dare not talk to the teacher if they have difficulties. As a result, the students live in a particularly depressing environment, and they have no interest in learning, in this way, the distance between students and teachers is getting further and further apart. As the saying goes, it is proper to treat students seriously, but we should not be excessively strict. Modern educational technology tells us that a person will be interested in things in a perfect and harmonious atmosphere; When they are praised by others, they will become more confident. When they are confident enough, they will become more and more progressive. Therefore, as a teacher, we have to learn to praise students, build a harmonious atmosphere for students and let students become the real master. Make ourselves more confident. According to the requirements, modern education can choose and use various teaching methods, integrate informationization and multimedia, so that the classroom becomes more flexible, audio-visual combination, the teaching mode of picture-text transformation makes the classroom more flexible for teachers and students. It arouses students' interest and greatly improves the classroom effect. Teachers and students can also search some of the Internet about learning, make more in-depth and comprehensive understanding, broaden horizons, and increase knowledge so that students better self-study and enhance their self-control.

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