An Analysis of the Strengthening Effect of New Educational Technology on Classroom Teaching in Colleges and Universities

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Abstract: The New Technology Represented by Computer Technology, Digital Technology and Network Technology Has a Profound Impact on the Way of Higher Education in China. There Are Some Problems in the Traditional Classroom Teaching in Colleges and Universities, Such as the Single Form of Teaching Resources, the Low Application Rate of New Educational Technology, the Old Teaching Ideas and Teaching Methods, Which Need to Be Further Solved and the Classroom Teaching Methods Need to Be Improved. Based on This, This Paper Analyzes the Current Situation of the Development of New Educational Technology, and Points out That the New Educational Technology Plays an Important Role in Enriching the Form of Teaching Media, Broadening the Access to Knowledge and Innovating the Classroom Teaching Methods, Which is of Great Significance to Improve the Classroom Teaching Effect in Colleges and Universities.

1. Introduction

1.1 Literature Review

The main direction of traditional education research is teaching method, which lacks the attention of information technology on the influence of education. Based on the theoretical model of learning, Chen Wei and Yang Yue evaluated the learning effect and analyzed the impact and role of educational information technology on Teaching (Chen and Yang, 2018). The rapid development of information technology puts forward higher requirements for higher education. In order to improve the teaching quality, we should combine the information technology to improve the teaching plan. Zhao Xiangliang analyzed the current teaching situation in Colleges and universities, combined with his own teaching experience, and pointed out effective reform methods of teaching forms in Colleges and universities (Zhao, 2013). The influence of the development of network technology on teaching is one of the most important issues in the field of education. Tong Xi et al. Analyzed the problems in China's online teaching, proposed corresponding solutions, and a safe and appropriate online teaching mode (Tong, 2016). Wang Rui and Jiang Yijiao analyzed the changes of university classroom teaching with the development of Internet technology, compared the teaching effects and Reform Strategies of several online teaching platforms, and concluded that Internet technology promotes the progress of classroom teaching (Wang and Jiang, 2018). Zhang Jinghui investigated and analyzed the classroom teaching methods and effects of private colleges and universities, and evaluated the application of information technology in classroom teaching based on the communication effect. By analyzing the problems in the application of information technology, it puts forward the application countermeasures and some thoughts (Zhang, 2014). Colleges and universities introduce new education mode, but there are still various problems in practice. Huang Yubin analyzed the practical effect of the new educational technology in the actual teaching, proposed that the new educational technology should conform to the students' learning situation, mobilize the students' learning autonomy, improve the evaluation system of the students' learning effect, and design the teaching procedure in line with the education situation of Chinese universities (Huang, 2019).

1.2 Purpose of Research

The educational model of basic courses in Chinese universities has been constantly reformed, and various new technologies have been gradually integrated to form new educational technologies. This is the trend of higher education progress, and also the requirement of society for higher education. At present, some colleges and universities have begun to use new technology to carry out teaching activities and strengthen the effect of classroom teaching. In some areas with developed education, the use of new educational technology has become the norm, and has formed its own style of teaching mode. For a long time, teachers used blackboards and chalk to give lectures. When new educational technology is introduced into the classroom, it can effectively alleviate teachers' occupational diseases and maintain good air. New technologies such as science and technology and digital technology have many influences on the way of higher education, so as to improve the effect of classroom teaching. It is very important for colleges and universities to study new educational technology and strengthen classroom teaching in order to cultivate talents that meet the needs of society.

2. The Current Situation of Educational New Technology Development

The development track of educational technology is from visual movement to audio-visual explanation, program teaching, system technology, reform of educational technology, and information technology to promote educational technology. This reflects the historical change of educational technology from a movement to a professional field. With the continuous improvement of science and technology, educational technology has also gained new opportunities for development. New educational technology mainly refers to the current mainstream auxiliary teaching technology, such as information technology, intelligent technology and digital technology. These new technologies have brought about changes in the form of classroom education, more and more abundant teaching resources, more and more diversified classroom content, and better teaching effect. For example, the rapid development of computer online technology and multimedia technology promotes the formation of situational classroom teaching. Learners acquire a certain amount of knowledge in the context of their own life experience, and no longer rely on rigid memory to master the knowledge taught by teachers in the classroom. The teacher gradually becomes the guide of teaching, and the main body of teaching is students. This classroom teaching mode gradually becomes the main mode of imparting knowledge (Zhang and Wu, 2014).

Traditional classroom teaching is mainly based on indoctrination. With the rapid development of information technology and intelligent technology, the main means of classroom teaching has changed into multimedia technology and network information. Compared with the traditional teaching method, this teaching method has the characteristics of sharing the latest materials, not limited by time and space, interaction and hypermedia. These teaching characteristics change the learning style of learners, and then change the traditional teaching concept and learning mode, and promote the application of learning based education technology gradually become a key research direction in the field of education. Combined with the modern new education concept and the advanced technology of the times, the classroom teaching mode, the theory of classroom teaching content design and the application mode of modern new technology are constructed, which greatly improves the classroom teaching effect.

3. Problems in Classroom Teaching in Colleges and Universities

3.1 The Form of Teaching Resources is Single

Because of the single traditional teaching form, the underdeveloped level of science and technology and the backward classroom conditions, the new education technology can not fully play its original role. The knowledge content of classroom teaching mainly comes from textbooks, teachers and history teaching copy plan, and its presentation form is mainly teachers' reading or explanation. This form of classroom knowledge is too single to fully stimulate students' interest in

learning. Teaching resources and multimedia equipment are not fully used, resulting in the teaching classroom atmosphere is not active enough, the teaching effect is not up to the ideal value. Students' senses are not fully mobilized, their first acceptance of new knowledge is not high, their impression of knowledge is not deep enough, and it is more difficult to use the new knowledge in the actual situation. The new single teaching and the lack of innovation in classroom teaching lead to the insufficient display of teaching resources and slow innovation.

3.2 The Application Rate of New Educational Technology is Low

The popularity of network technology and computer technology in people's lives is high, and it is an efficient connection channel for people to contact and learn new skills and knowledge. Teachers should always study the most cutting-edge educational concepts in the field of education, and use new teaching methods in actual teaching. At present, colleges and universities rarely use multimedia technology and digital technology in classroom education, and generally choose the most basic and least equipment traditional teaching form. Some colleges and universities use multimedia equipment to teach, only use new technology in form, while teaching content and teaching form do not use new education technology. When there are many teaching contents and various forms of expression, it is difficult for teachers to grasp the main line of teaching and easily deviate from the theme, which is the reason why the use of new educational technology is less. In addition, the lack of equipment funds in Colleges and universities also leads to the low application rate of new educational technology.

3.3 The Teaching Idea and Method Are Old

China's higher education is seriously affected by the traditional examination oriented education ideas. Even for courses with higher requirements for practical ability, teachers still pay attention to improving students' test scores. Such teaching ideas affect students' use of classroom knowledge in the actual situation, and students' poor practical ability, which makes it more difficult for colleges and universities to cultivate composite application talents. In order to ensure that students master the classroom knowledge, teachers choose the traditional teaching mode to instill new knowledge into students again and again. This situation hinders the further development of teaching concept, increases the teaching workload of teachers, and is difficult to stimulate students' enthusiasm for learning. The teaching idea takes teaching knowledge as the main body and ignores the importance of learning, which makes it difficult for students to form the ability of independent learning. The teaching method is mainly in the form of explanation, which is difficult to attract students' interest in learning, resulting in poor classroom teaching effect.

4. Analysis of the Effect of New Educational Technology on Strengthening Classroom Teaching in Colleges and Universities

4.1 Enrich the Form of Teaching Media

Teachers can select several representative media materials in the classroom teaching, and do not need to call many teaching media resources. With the help of multimedia equipment teaching can activate the classroom atmosphere, students' enthusiasm for learning is also mobilized. At the same time, we should pay attention to the students' mastery of knowledge. In a lesson, teachers only focus on one or two main lines.The new educational technology provides the classroom teaching media with visual, auditory and tactile sensory teaching forms. Teachers should reasonably arrange the use order of these media teaching resources, deal with the relationship between the media and students, so as not to make students feel confused, but also to master new knowledge. The classroom is the main place to educate students. Its teaching media is rich, which is conducive to the students' multi sensory system learning knowledge at the same time, deepen the impression of classroom teaching, and facilitate the accurate use of the knowledge in the actual situation.

4.2 Broaden Access to Knowledge

In classroom teaching, courseware and textbook are the main carriers of classroom knowledge.

When making courseware, teachers should not only combine history teaching experience, but also make full use of new educational technology to form a comprehensive and useful courseware with a knowledge point as the center. In addition to the use of new educational technology to enrich classroom knowledge, students can work in groups to collect information about textbook articles, collect relevant knowledge from multiple channels, and form a reference to help understand articles. When teachers and students use the new technology to find information, they should always focus on a certain knowledge point and not blindly find information. It is also a kind of exercise for students to select and summarize useful information from a large number of relevant materials. Students can acquire knowledge in classroom, network and other environments, or test their mastery of a certain knowledge point in different environments.

4.3 Innovation of Classroom Teaching Methods

The ultimate purpose of classroom teaching is to enable students to master some new knowledge after listening to the class, and to use the simplest new knowledge to solve some problems. When designing teaching links, teachers should consider students' acceptance and textbook knowledge teaching requirements comprehensively, and form a coherent classroom teaching plan. Due to the short time of a class, teachers can not be fully used to explain new knowledge. They should interact with students more to understand what they are interested in and how well they master the knowledge. Classroom teaching is not only a place for students to learn new knowledge, but also a place for teachers to improve. The more perfect the classroom teaching plan the teacher prepares, the more able to give full play to the role of guiding students to learn new knowledge. The innovation of college classroom teaching method can strengthen students' acceptance of new knowledge and deepen the emotional communication between students and teachers.

References

[1] Chen W., Yang Y. (2018). The Impact of Information Technology on Education Ecology and Education Effect: a Model Analysis Based on Learning Harvest. University Education Management, 40(3), 86-92.

[2] Zhao X.L. (2013). Strengthening Information Technology Teaching and Improving Teaching Effectiveness in an All-round Way -- How to Build an Efficient Information Technology Classroom Teaching in Vocational High Schools. China Educational Technology Equipment, 20(22), 32-33.

[3] Tong X. et al. (2016). An Analysis of the Impact of Modern Educational Technology on Classroom Teaching from the Perspective of University Management. Financial information, 1(8), 78-78.

[4] Wang R., Jiang Y.J. (2018) "Internet +" Technology Promotes the Effectiveness of University Classroom Teaching. Cultural and Educational Materials, 16(11), 27-28.

[5] Zhang J.H. (2014). Analysis of Classroom Teaching Problems in Private Colleges and Universities under the Information Technology Environment from the Perspective of Education Communication. Modern Enterprise Education, 16(12), 167-168.

[6] Huang Y.B. (2019). Strategies for Improving the Effect of Flipped Classroom Teaching in Colleges and Universities. Journal of Higher Education, 5(10), 92-94.

[7] Zhang C.Q., Wu J. (2014). Reflections on Calculus Classroom Teaching in the Context of New Technology. Journal of Anhui Agricultural University (SOCIAL SCIENCE EDITION), 23(4), 123-126.