

MODERN EDUCATIONAL ENVIRONMENT

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Abstract. The purpose of this paper is to discuss the connotation of modernized educational environment, the challenges it faces and the strategies to cope with them.

Keywords: modernization, educational strategies, technology, innovativeness.

With the continuous progress of society and the development of science and technology, the educational environment is undergoing unprecedented changes. The traditional way of education can no longer meet the needs of modern education. In order to improve the quality of education and cultivate talents with innovative spirit and practical ability, education reform has become an inevitable choice. The construction of modernized educational environment, as an important part of educational reform, aims to create an open, interactive and diversified educational environment through modernized teaching means and technology to promote the comprehensive development of students. Therefore, the in-depth study of modernized educational environment has important practical significance and theoretical value.

The modern educational environment is based on technology, especially information technology. This includes the Internet, cloud computing, big data, artificial intelligence and so on, which provide powerful technical support for education. For example, Wuhan Jiangnan Experimental Middle School in China has implemented a smart classroom system, which analyzes students' learning behavior data in real time and provides teachers with targeted teaching strategies to effectively improve teaching effectiveness.

In a modernized educational environment, the freer flow of information and the greater abundance of educational resources have made education no longer confined to the traditional classroom, but has gone global, allowing more people to share quality educational resources. For example, in the case of online courses UMOOCs, it is a large-scale online virtual classroom that connects lecturers distributed around the world and learners who are also posted around the world through teaching and learning. For the majority of learners to provide a variety of courses from all kinds of top universities and colleges in the world, students can learn with the help of video technology and online platforms. Therefore, students can not only learn the courses of top universities in China, but also learn the open courses of top universities from other countries. For example: Tsinghua University, Oxford University, etc. [1]. The modern educational environment pays more attention to diversified teaching modes. It is able to provide customized learning resources and teaching strategies according to learners' individual needs and characteristics to better meet the needs of personalized learning. For example, situational teaching, case study teaching, practical

teaching, project-based learning, cooperative learning, etc., to adapt to the needs of different students. These diversified teaching models are centered on constructivism, and different teaching methods are selected to target the characteristics of different students and different courses, aiming to improve the quality of education and cultivate talents with innovative spirit and practical ability.

Although the construction of a modern educational environment has many advantages, it also faces many challenges in the actual promotion process:

1. Unbalanced educational resources: There is an imbalance in quality education among regions, schools and families, which affects the fairness and quality of education. In some regions and schools, the popularization and application of advanced technology cannot be realized because of economic conditions and technical levels.

2. Rigid Educational Model: The traditional educational model is relatively rigid, making it difficult to adapt to the rapidly changing needs of society and the individualized development of students. In addition, the construction of a modernized educational environment requires a large amount of capital and resources, including hardware equipment, software resources and technical support. Some regions and schools are unable to meet these needs because of financial constraints.

3. Teacher training is lagging behind: a modernized educational environment requires teachers to have a high level of competence in the application of information technology and in teaching innovation. However, the coverage and effectiveness of current teacher training needs to be improved, and some teachers have limited ability to accept and apply new technologies and ideas [2].

The modernized educational environment has broken down the traditional geographical restrictions, allowing for the wider dissemination of quality educational resources. This helps to narrow the education gap between regions, enabling more people to receive quality education resources and realizing education equity. For example, students in some remote areas can access online educational resources and enjoy the same quality of education as urban students. The modernized education environment has promoted the transformation of the education model from the traditional teacher-centred model to a student-centred model. This is conducive to the development of students' independent learning ability and innovative spirit. The modernized educational environment has seen significant advances in technology. Modern technology provides many advanced techniques such as artificial intelligence, cloud computing and big data, making personalized learning, online learning and distance education possible. Modernized educational environments provide rich learning resources and advanced teaching tools, which help to improve the quality of education and give it greater depth and breadth. For example, in many areas, schools have realized the integration of modern technology with teaching. Educators use artificial intelligence to recommend learning resources and provide each student with the most appropriate learning materials according to their learning situation and progress, greatly fostering learning efficiency. The popularization of the Internet has made it easy for students to access a wide range of information, expanding their knowledge and facilitating the cultivation of their independent learning abilities [3].

We have to reform the educational model thoroughly, then we can't just upgrade the students and teaching resources, we also have to upgrade the comprehensive ability of teachers. Such as:

1. **Enhancing teachers' technological literacy:** Teachers are important players in a modernized educational environment, and they need to master the necessary technological tools and teaching methods to adapt to the new educational environment. Therefore, strengthening teachers is the key to building a modernized educational environment. Schools and educational institutions should introduce excellent teachers, strengthen teacher exchanges and cooperation, and establish effective incentive mechanisms. etc. to improve the overall quality and educational level of the teaching staff.

2. **Development of students' capacity for independent learning:** In the new educational environment, students need to be able to learn independently in order to make better use of the richness of educational resources and to achieve self-development.

3. **Innovative education management models:** In a modernized education environment, we need to innovate education management models to adapt to the new education environment and new learning needs. This includes reforming the evaluation mechanism, strengthening personalized services, etc.

4. **Ensuring network security and privacy protection:** In the process of utilizing the modern educational environment, we need to pay attention to the issues of network security and privacy protection, establish a perfect information security system, and protect the personal information of students and the security of educational data.

5. **Optimizing the curriculum:** In a modern educational environment, the curriculum should pay more attention to the subjective position of students and their individual needs. By adjusting the course structure, updating the teaching content and introducing diversified course forms, the comprehensive quality and innovation ability of students can be improved. For example, online courses and learning platforms, distance teaching and interaction, and online evaluation and feedback should be added.

6. **Strengthening training in technology application:** Schools and education departments should intensify their efforts to train teachers in the application of technology and to improve their ability to apply information technology and to innovate in teaching. At the same time, technology literacy education for students can be carried out to cultivate students' information literacy and digital learning ability. Examples include courses on virtual laboratories and scene simulation, augmented reality-assisted teaching and artificial intelligence-assisted education [2].

Through an in-depth exploration of the modernized educational environment, it can be found that it plays an important role in promoting educational reform and development. The modern educational environment helps optimize teaching methods, enrich teaching resources, and improve the quality and efficiency of education. At the same time, it can also cultivate students' independent learning ability and innovative spirit, laying a solid foundation for the cultivation of future talents and skill

enhancement. Therefore, it should continue to increase the construction of a modernized educational environment and strive to promote the informatization and modernization process of education. As well as actively responding to this change, we should make full use of the advantages of the modernized educational environment to improve the quality of education and cultivate the next generation with innovative spirit and learning ability. At the same time, we should also be alert to the challenges and problems involved to ensure the healthy and sustainable development of education.

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