**Education Informatization is the Foundation to Lead the Innovation and Development of Education**

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**Abstract:** With the advent of the information age, education informatization has won more and more attention. In the specific teaching and learning activities, teachers and students should realize that educational informatization is the foundation of educational innovation and development. In this process, educators and educatees are required to play their respective roles to promote the comprehensive development of information literacy. This paper introduces the concept and function of educational informatization in detail, analyzes its problems, and expounds the corresponding development strategies from five aspects.

1. **Introduction**

Educational informatization is the organic combination of computer, multimedia, network, information technology, etc., and applied to teaching, learning, education and teaching management, which promotes the formation of new teaching objectives and teaching models, and realizes the complete embodiment of education and teaching. It is not only conducive to promoting the reform and innovation of education, teaching mode and teaching concept, but also conducive to improving the level and quality of education and teaching, as well as students’ learning ability and learning quality. Education informatization mainly takes “information” as the platform of educational activities, which is widely used in various disciplines. It applies information technology extensively in various fields of education, so as to promote the complete construction of education informatization.

2. **Concept and Function of Educational Informatization**

In the process of education informatization, teachers need to stress the analysis of education system, education information and education concept, promote the effective use of information technology, and realize the purpose of auxiliary teaching and learning efficiency improvement. At present, China’s education informatization construction mainly includes the following aspects. First, the hardware environment construction of educational informatization should be implemented in practice. The hardware environment is mainly manifested in the construction of multimedia classroom, network information classroom, campus website, home-school interaction platform and so on. They are produced to promote and assist education and teaching. It is the prerequisite and basic condition for the efficient implementation of education informatization. It is worth noting that the success or failure of educational informatization construction is evaluated through specific practical operation. Therefore, the practical operators are required to possess certain basic information technology skills to maintain and support the construction of educational informatization. Second, the construction and use of educational information software resources should be implemented in teaching practice. The construction of software resources mainly includes abundant teaching software and guidance software used in education and teaching activities, such as text, picture, audio, video, etc., and online teaching software, like Ding Talk, online education website, etc. In the construction of educational information software resources, the quantity and quality of resources as well as the compatibility of resources and software must be paid attention, so
as to keep the resources diverse and authoritative and improve the quality and level of software construction. Third, improve the information technology literacy of teachers. In order to better realize education informatization and promote the perfect presentation of education and teaching, it is necessary to stress the training of teachers’ information technology skills. Only with information technology talents, can the concept of education informatization be effectively carried out. First of all, it is of necessity to cultivate teachers’ thinking concept, make them realize the advantages and values of education informatization, and promote their interest in training and learning. Secondly, it is essential to optimize the form of training, so that teachers are able to quickly and easily master the relevant professional skills, and further exercise and implement them in practice. Finally, it is important to expand training channels, promote teachers to learn training courses from multiple channels and angles, master professional skills and skills of information technology, and make efforts to realize education informatization.

3. Problems in the Development and Innovation of Education under the Guidance of Educational Informatization

3.1 Lack of Concept Innovation of Educational Informatization

The concept innovation of educational informatization is mainly reflected in the following aspects. First, pay attention to hardware investment but despise software construction. During innovation, it is thought that hardware can be seen and touched, which should be given priority to innovation. However, the fact that hardware without software is useless is ignored. Second, insufficient importance is attached to education informatization. In the process of educational innovation and development, the positive role of informatization in promoting teaching has not been realized. The traditional ideas and thinking mode are continuously taken to make the ideas, thoughts and forms of educational informatization lag behind. Third, theory is divorced from practice. The reason for this problem is that there is a lack of professionals, professional teams and technical support.

3.2 Insufficient Information Talents

In order to play the role of education informatization, it is essential to own human resources. A high-quality, efficient and professional technical talent team is the basic premise of educational innovation and development. Educational informatization is in an urgent need of talents in advanced information technology and software development and application. Therefore, in the construction of education informatization team, more attention must be paid to the composition and training of talents, so as to create an efficient professional and technical personnel team, promote education informatization, and lead education innovation and development to achieve excellent results.

3.3 Problems in Technical Application

Education modernization mainly depends on technology. In the actual development process, the development and application of professional technology are more stressed. The modernization of education promotes the innovation and development of education to achieve good results. Technical problems are mainly manifested in the following aspects. First, the training conditions and platforms for teachers can no longer meet the requirements and conditions of the development of education informatization. Second, there are problems in students’ learning methods. They fail to use information technology in learning to solve practical problems, resulting in the lack of platform for educational informatization.
4. Strategies to Make Educational Informatization Lead the Innovation and Development of Education

4.1 Innovate the Concept of Informatization and Promote the Innovation and Development of Education

In order to better carry out the work of education informatization, it is a must to innovate the concept, apply professional and advanced concept with high quality to lead the innovation and development of education, promote the overall planning and gradual implementation, and attach importance to integrity and openness. At the same time, advanced educational information concept should be used to change the ideological cognition of teaching and learners, promote their ideas to produce educational value, encourage bold attempts, and promote the priority realization of educational objectives and plans, so that information planning education will enjoy an appropriate platform and excellent resources. Moreover, there will be enough time and space for the innovation and development of educational informatization assisted teaching, so as to meet the needs in the development process and promote the realization of goals.

4.2 Vigorously Carry out Training Cooperation and Cultivate Excellent Professionals

Education informatization must adhere to the concept of “people-orientation and education first”. To expand the construction of informatization team, targeted training activities are required to be carried out, so that professionals are able to exchange, discuss, promote and grow with each other in the training process. In this way, the overall ability and level of education informatization team are enhanced, providing a basic guarantee for future education innovation and development. First of all, carry out the whole staff training system to enhance team awareness, increase team cohesion, and improve the comprehensive quality. Second, stress the cultivation of students’ information ability to improve their information literacy, promote their development, and achieve early realization of educational innovation and development. Third, strengthen the training of teachers’ information professional skills. No matter in which stage of education and learning, we can do nothing without excellent guidance and organization. Therefore, the importance of teachers is obvious. In the field of educational informatization, the role and value of teachers are also the most important.

4.3 Strengthen the Scope of Professional Development and Solve Technical Application Problems

Under the influence of inevitable trend of educational innovation and development, we should, according to the actual needs and development goals, strengthen the scope of professional development from multiple angles, solve the problems of technology application, and promote the application and development to be improved. According to the actual situation of education, carrying out online education and teaching activities is a vital manifestation and development trend under the background of information age. Teachers are required to build an information platform for communication based on students’ learning ability, cognitive level, participation and other aspects, so as to make education informatization more professional and universal. While improving students’ ideological and behavioral cognition, teachers should promote the training and improvement of the level and ability of technical mastery, and promote the innovation and development of education to achieve high-quality and efficient results.

4.4 Apply Information Technology to Change the Teaching Content

With the advent of the information age, the application of information technology in teaching process is an inevitable development requirement. Under this concept, there are clear requirements for the form and content of information technology means. Teachers need to make teaching plans according to the syllabus and promote the popularization and implementation of teaching plans, so that learning can fully play the advantages and functions of information technology, promote the comprehensive development of education informatization, and help teachers optimize the teaching process and improve teaching details. During education, students’ personality characteristics,
experience, learning situation and so on must be considered from family, school and society, so that students are capable of absorbing more diversified and advanced information technology knowledge. For example, it is feasible to learn related professional knowledge through multimedia, network and other information technology resources, so as to enrich the teaching content, improve the quality of teaching, and let students enjoys a broad development space in the rich information technology environment.

4.5 Use Educational Informatization to Promote the Change and Innovation of Teaching Methods

In the process of education and teaching, teachers should realize that students’ acquisition of knowledge and experience is not only dependent on external educational means, but also partly through thinking and exploring. This part of knowledge is more practical, playing a great role in promoting students’ memory and application. In teaching, to use education information to guide the innovation and development of education, teachers need to always remind themselves that they should use information technology to innovate education and teaching methods, so that students can expand their thinking, update ideas, improve cognition in flexible and open teaching methods, improve their information technology professional quality, and better learn relevant knowledge. First of all, teachers are required to turn traditional lectures into guidance to promote students’ thinking formation and technology application. The characteristics of openness and diversity of information technology can be made use of to promote education innovation. After teaching basic knowledge, teachers guide students to carry out independent inquiry learning, so that students are able to find teaching objectives in the process of inquiry, and complete the learning task. Only through such practical experience, can students truly understand the subjectivity and leading role of teaching, give full play to their learning potential, obtain rich learning resources, capture important learning information, and promote the overall improvement of the level and quality of teaching effect. Second, students should turn traditional listening into learning, so that their learning thinking and learning ability can be exercised, which is conducive to the development of their thinking and the change of traditional learning ideas. In the process of listening and learning transformation, teachers are expected to take corresponding teaching responsibilities and tasks actively, help students obtain learning methods and skills more clearly and easily and promote their creative ability to be plaid, so as to enhance the overall innovation of teaching methods.

5. Conclusion

In a word, when applying the means of educational informatization to promote the innovative development of education, teachers should pay attention to the characteristics of professionalism and openness of informatization, so as to promote the comprehensive development of students’ specialty, personality, professional skills and professional ability, as well as improve students’ personal comprehensive quality.

References


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