

Discussion on the Construction of Special Education Informatization Environment and Its Development and Application

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ABSTRACT: *At present, China's education is in a vigorous development stage, special education as part of China's education should be taken seriously. In order to promote the development of special education in China, information construction should be put on the agenda. Nowadays, there are some problems in the informatization of special education in China. In order to ensure the stable development of special education schools, all sectors of society need to make unremitting efforts. Based on the information environment construction of special education, this paper analyses the current situation of its application.*

KEYWORDS: *Information technology; Environmental construction; Special education; Application status*

1. Introduction

Special education is a part of traditional education. At present, the informationization level of general education in China has developed rapidly, and special education has its particularity. Educational informationization is a development opportunity for students with obstacles. Contemporary information technology plays an important role in helping students with obstacles to make up for their own shortcomings and develop their potential. Therefore, promoting the popularization of information technology in special education can effectively help disabled students improve their learning efficiency, improve their personality, help themselves get better development, and help disabled students' physical and mental health.

2. Current Situation of Information Environment Construction of Special Education in China

2.1 The Utilization Rate of Special Education Information Environment is Low

The information environment construction of special schools in China has made

great progress, but there are still obvious problems in its application. At present, there are computer classrooms for teaching in special education institutions in our country, and the network access has been completed. Most special education schools have met the national requirements for the proportion of computers, and students can better access learning resources through the network. Most special education institutions have built a basic information-based teaching environment, such as multimedia classrooms and other relatively simple information-based teaching environment. However, some teachers have a low degree of use of these information-based teaching equipment, and do not pay attention to the interaction with students in the actual use process, which makes it difficult for electronic information equipment to realize its own advantages and values in the work of disability education.

Some special educators are not strong enough in the application of information technology, and the level of information technology is at a low stage. According to the relevant survey, some special education schools' understanding of information technology is still in the learning stage, and even some only stay in the listening and speaking stage, and have not made a more in-depth concrete attempt. Usually, the acceptance of new educational models and concepts needs to be improved. At present, Chinese special education workers are in the initial stage of information-based education. Great adjustments have been made in the teaching mode and curriculum arrangement. Teachers have a higher enthusiasm in learning information technology teaching, and the competition between teachers and teachers is more intense. However, the informationization of special education is still in the stage of imitation and adaptation. Some relevant workers do not have their own style of informationization education, so it is necessary to guide and correct teachers' informationization level scientifically[1].

2.2 The Actual Utilization Rate of Information-Based Rehabilitation Environment Construction in Educational Institutions is Not High

Contemporary rehabilitation medicine can effectively help students with disabilities to develop their potential abilities, help them make up for their own deficiencies, make up for their physical deficiencies through specific training and adaptation, help disabled students improve their quality of life, recover their self-confidence, and promote their physical and mental health. Rehabilitation medicine is usually involved in education. Because of the particularity of students, special schools are required to have an information-based rehabilitation environment to help disabled students enhance their rehabilitation probability. Informatization of special education requires teachers to have high professional quality. Information technology can help disabled students make up for their physical defects. It is of great significance to cultivate their perception ability and help students integrate into social life as soon as possible. However, at present, the professional accomplishment of special education teachers in China needs to be improved. Some teachers' understanding of information-based teaching only stays at the level of demonstration, and lack of systematic understanding of information. In the process

of teaching, information-based teaching software and other equipment do not fully play its role. Compared with ordinary schools, the use of information-based equipment in special education schools is more common, and it is not suitable for students with physical defects to learn. For the disabled students, the application level of professional learning software is low. Because of the students' own differences, this teaching mode is difficult to help students improve their learning efficiency. For example, students with visual impairment have poor eyesight. Teachers should use colorful courseware to teach them. Teachers should fully consider the particularity of students' learning in the process of teaching resources[2].

2.3 Significant Regional Differences

At present, there are many problems in the construction of rehabilitation environment of special education informatization in China. The informatization degree of rehabilitation environment needs to be improved, and there is a significant gap between regions, which hinders the development of special education in China. There is a positive relationship between the construction of information rehabilitation environment and the application of information rehabilitation environment. As far as the utilization rate of information-based rehabilitation environment is concerned, the utilization rate of information-based rehabilitation environment is not high. In areas with high economic development, the construction and utilization rate of information-based rehabilitation environment is at a high level, and there are often more advanced information-based rehabilitation equipment with a variety of functions. However, for the vast developing areas, the rehabilitation environment of special education informatization is still in its infancy. The rehabilitation environment is relatively backward, and has not received enough attention. The polarization is serious, which hinders the development and construction of the special education informatization environment[3].

2.4 Students' understanding of Information-Based Learning Software

There are physiological defects in the daily life and communication of students in special schools. Students' life and study depend on certain support and help. Compared with general education, special education is relatively late in information construction and slow in development. The construction of educational information environment has not fully met the needs of special education. Students in special schools need to improve their understanding and adaptation to information technology. In order to encourage students of special education schools to accept and better use modern information-based teaching equipment, schools need scientific guidance from all sides. In the process of teaching, teachers should pay attention to the needs of special students and teach according to their own actual situation. In the course of compiling courseware, teachers should consider many factors, so that students can apply information-based learning software independently, and effectively solve the problem that special students can not apply relevant equipment independently in information-based education[4].

3. Measures to Strengthen the Construction of Information Environment for Special Education

3.1 Increasing Investment in Special Education Informatization Environment Construction

The construction of special education information environment needs certain financial support. The government should vigorously support the construction of special education school information environment, and promote the construction of special education information barrier-free environment to be effectively implemented. In addition, schools can use other forces to cooperate with relevant enterprises or social institutions in order to obtain financial support. Special education schools with poor conditions should actively contact with social charity units to seek help, so as to provide guarantee for information-based environmental construction. For the construction of information-based education environment, we should make preparations in the early stage, and the educational administrative units should make macro-planning for this project, so as to facilitate the implementation of information-based engineering, ensure the efficiency of information implementation, and complete the construction of information-based environment for special education as soon as possible[5].

The information environment construction of special education should follow the corresponding national standards. In the process of information construction, it is necessary to fully consider the different needs of different groups of students in special education schools, and ensure scientific and reasonable selection of equipment and corresponding resources. Timely replacement of outdated and backward old facilities, in strict accordance with the standards of information construction, to maximize the information equipment in the education of special students, can give full play to their own advantages, help special learning groups to achieve better learning results, and promote students'comprehensive and healthy development[6].

3.2 Promoting the Sharing of Learning Resources in Special Education

China's general education has a strong resource sharing system. Special education is deficient in this respect, and the access to related resources is relatively single. Therefore, the government should vigorously strengthen the special education resource sharing system. Special education schools ensure that teaching resources can be updated and enriched in a timely manner. Teachers can obtain more practical teaching materials in the process of teaching. At the same time, teachers can exchange and share experience through the sharing platform to ensure better development of special education work. Educational administrative units should set standards for this purpose, ensure the scientific validity of learning materials, and achieve the goal of standardizing and optimizing teaching resources. For students, students with physiological deficiencies can download learning materials for self-learning through resource sharing platform, help students develop their own

potential, to a certain extent, make up for their own deficiencies. Parents of students can also get relevant effective resources through this platform, which is convenient for parents to help students better carry out rehabilitation training and life.

The development of special education resources sharing platform is of great significance to China's education cause and should be paid attention to. This requires educational institutions not only to pay attention to students' classroom learning, but also to extend outside the classroom. Resource sharing platform should fully consider the particularity of user groups. In addition to the necessary learning resources, the platform also needs to introduce various information-based rehabilitation materials and related medical information. Teachers should fully recognize the importance of sharing special education resources and actively participate in the corresponding development work[7].

3.3 Enhancing Teachers' information-Based Teaching Skills

Special education can not be separated from the effective participation of teachers. Information-based teaching mode is a test of teachers' professional quality. At present, the development of information-based education is relatively rapid, requiring teachers to have strong information-based teaching skills. There are some differences between the information-based teaching equipment in special education schools and the conventional information-based teaching equipment. Therefore, more stringent requirements are put forward for teachers' personal abilities. Schools should regularly offer relevant skills training courses for teachers, update the training form and content in time, invite relevant experts and rehabilitation medicine researchers to give lectures when conditions permit; foster competition awareness among teachers, ensure their enthusiasm for work, and effectively improve teachers' information-based education level. Informationized teaching is now in the rapid development stage. Informationized technology is a skill that modern teachers must master in their educational work. When training teachers, schools should stimulate their own self-learning consciousness, so that they can pay more attention to the improvement of individual ability in future education work, and better invest in the construction of special education informatization[8].

4. Conclusion

The development of informationization is the inevitable trend of education, helping the special education work to complete the transformation of informationization of education. Relevant workers should respond to the call of the state, actively participate in the cause of education reform in China, and promote the development of special education informatization in China. Promoting the construction of special education information environment requires the joint efforts of all sectors of society.

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Reference

- [1] Jia Jingyuan (2016). Present situation and Countermeasures of special education informatization construction in Henan Province. Henan: Henan University.
- [2] Hao Lihua (2015). Investigation and Research on the Current Situation of Education Informatization Construction in Blind and Deaf-mute Schools--Taking Lanzhou Blind and Deaf-mute Schools as an example. Gansu: Northwest Normal University
- [3] Wen Yongjin (2014). Research on the status quo and Countermeasures of informatization development of special education schools in Baoji City. Gansu: Northwest Normal University, 2014.
- [4] Liu Zhenhua (2015). Research on the Present Situation and Countermeasure of Physical Education Participation of Disabled Students in Shandong Special Education School. Shandong: Shandong Normal University.
- [5] [5] Yang Fangqi (2017). Investigation on the present situation of special education informatization construction in Shaanxi Province and Countermeasures for its development. Journal of Weinan Normal University, vol. 32, no. 6, pp.15-24.
- [6] Liu Yuan (2017). A Case Study on the Informatization Construction and Development of Special Education in Western China. Journal of Weinan Normal University, vol. 32, no. 18, pp.55-61.
- [7] Du Lili (2019). Investigation Report on the Current Situation of Information-based Barrier-free Education and Teaching in Special Education Schools. Sino-foreign Exchange, vol. 26, no. 21, pp.40-41.
- [8] Guo Jiong, Zhong Wenting (2016). Investigation and Research on the Construction and Application of Special Education Information Environment. Research on Audiovisual Education, vol. 37, no. 4, pp.26-35.