

The innovation path of intelligent education practice system in universities

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Abstract: Colleges and universities have four functions: personnel training, scientific research, serving economic and social development, cultural inheritance and innovation. Among them, personnel training is the main task; Wisdom education refers to the cultivation of top-notch innovative talents with “wisdom”. As an important part of higher education, the practice system of wisdom education is the focus of talent training. In the era of new media and big data, in order to better promote the construction and implementation of the practice system of smart education in colleges and universities, it is necessary to expand the influence and appeal of “smart education” by means of open communication media, fine communication content and diversified communication methods, strengthen the sense of responsibility of teachers and students, drive the wide application of big data and other technologies in teaching fields, and stimulate the vitality and creativity of teaching. Cultivate versatile and application-oriented talents who meet the needs of The Times. The innovation of the practice system of intelligent education in colleges and universities includes the establishment of diversified curriculum system, the provision of diversified practice opportunities, the construction of effective evaluation mechanism, and the promotion of information technology application.

Keywords: intelligent education practice system innovation path

From the national macro level, the 2018 Education Informatization 2.0 Action Plan proposes to promote the integration of modern technologies such as big data and artificial intelligence in education; In 2019, the “China Education Modernization 2035” proposed to realize the overall modernization of education, enter the ranks of education powers, and build a modern education system that serves the lifelong learning of all people; In 2022, the “14th Five-Year Plan for Digital Economy Development” and the “China Smart Education Blue Book (2022)” both proposed guiding measures to further promote smart education and promote the sustainable and healthy development of “Internet + education”. From the perspective of micro-practice, under the guidance of the Party and the state, major universities have carried out innovative practices of smart education. For example, Beijing Institute of Technology has integrated the concept, technology and method of smart education into the whole process of school governance and education and teaching. Uestc builds “1234” intelligent network education platform to promote accurate thinking and politics; Xi’an Jiaotong University built a big data platform for student work to accurately help “smart” education. From the national macro level, the 2018 Education Informatization 2.0 Action Plan proposes to promote the integration of modern technologies such as big data and artificial intelligence in education; In 2019, the “China Education Modernization 2035” proposed to realize the overall modernization of education, enter the ranks of education powers, and build a modern education system that serves the lifelong learning of all people; In 2022, the “14th Five-Year Plan for Digital Economy Development” and the “China Smart Education Blue Book (2022)” both proposed guiding measures to further promote smart education and promote the sustainable and healthy development of “Internet + education”. From the perspective of micro-practice, under the guidance of the Party and the state, major universities have carried out innovative practices of smart education. For example, Beijing Institute of Technology has integrated the concept, technology and method of smart education into the whole process of school governance and education and teaching. Uestc builds “1234” intelligent network education platform to promote accurate thinking and politics; Xi’an Jiaotong University built a big data platform for student work to accurately help “smart” education.

1. Guided by the practice of intelligent education

Guided by the practice of wisdom education, colleges and universities should adhere to the fundamental task of cultivating morality and people, bear in mind the glorious mission of training builders and successors of socialism with Chinese characteristics for the Party and the country, truly achieve “wisdom in people, wisdom in the school, and strong wisdom in the country”, and strive to cultivate compound and applied talents with ideological and political awareness, theoretical knowledge, professional skills and information literacy in the new era. This paper aims to provide some useful enlightenment and reference for the reform and development of the practice system of intelligent education in colleges and universities.

In recent years, many colleges and universities have continued to deepen the reform of education and teaching, actively build a “smart education” platform, take moral education as the central link, serve students, care for students, reshape the student team, and promote management transformation. The following are the three components of the practice system of intelligent education:

(1) Educational philosophy and values of teachers and students in colleges and universities

Educational philosophy is the highest level of educational thought, which directly affects teachers’ attitude and direction of educational practice. It is also an important part of the practice system of wisdom education. The educational concept of wisdom education is based on the traditional educational concept, and through continuous deepening and improvement, it has reached a higher level of education. With the rapid development of information technology, the education concept of intelligent education relies on big data, cloud platform and other technologies to build a network ideological and political education position, integrate the first class, the second class, and rich network

ideological and political education resources, promote the construction of students and strengthen the ideological guidance of college students. Through the “smart education” network platform, promote the education of socialist core values, red education, peer power, role models and other online and offline education activities, firmly build and construct the correct values of students.

(2) Student management and service in colleges and universities under the background of intelligent education

With the continuous progress of information technology, in the background of the intelligent era, student management and service in colleges and universities have entered a critical period of reform. In the context of the intelligent era, students’ thoughts, words and deeds, and values have been affected to varying degrees. The traditional college student management and service model has not adapted to the trend of information technology. Therefore, it is necessary to optimize the management and service mode of intelligent education students, rely on information management of colleges and universities, and improve the level of work. Relying on the online platform of “intelligent education”, colleges and universities make use of network resources to create one-stop services for students and realize the process and standardization of student management services online and offline. Help students to solve problems in study and life, and promote the healthy growth of students.

(3) College career planning and employment guidance under the background of intelligent education

Internet + and mobile big data have brought new changes and new opportunities to the employment guidance of colleges and universities. In the context of smart education, universities use big data analysis tools to collect and analyze employment trends and market demand in various industries. Through the in-depth analysis of these data, the school provides students with more accurate career advice and employment direction. Colleges and universities should strengthen career planning education to help students understand their interests, advantages and development direction, so that students can be more clear about their career goals and work out specific development paths. With the help of big data, artificial intelligence and other technical means, each student can be provided with personalized career planning and employment guidance. In this way, students can formulate the most suitable development strategy according to their own characteristics and needs. Universities should strengthen cooperation with enterprises and establish internship, practice and employment channels to help students better understand industry dynamics and market demand. At the same time, school-enterprise cooperation can provide students with practical opportunities to improve their practical ability and comprehensive quality.

2. Guided by the national education modernization and wisdom education strategy

combined with the practical experience of wisdom education in domestic colleges and universities, a replicable and extendable practical education system has been formed. Colleges and universities need to carry out “1+3+N” innovation in curriculum system, student education and teaching practice, effective evaluation mechanism of education and teaching, and information technology promotion. The specific innovation path is as follows:

(1) Colleges and universities should establish a diversified curriculum system for students

the diversified curriculum system of colleges and universities should not only include the diversification of course content, teaching methods and teaching evaluation, but also include the diversification of objectives. The curriculum system of a school is mainly to set the goal of talent cultivation, and the final result of talent cultivation goal is to cultivate what kind of people. Man, on the other hand, has complete natural attributes, social attributes and spiritual attributes. Therefore, the curriculum system should not only pay attention to students’ practical ability and innovative ability, but also take into account students’ humanistic quality and moral education. The diversification of curriculum system also includes the diversification of curriculum combination. The curriculum system is a complex system, and the systems, activities and paths of various courses need to be planned and coordinated.

(2) Should provide a variety of practical opportunities

with the continuous development of Internet technology, the Internet has become an indispensable part of people’s lives. The traditional education and teaching model has been unable to meet the demand for talents in modern society, so major universities have begun to explore new innovation and entrepreneurship education models in order to cultivate talents with more innovative consciousness and practical ability. This new model is based on Internet technology and allows students to learn in practice through a combination of online and offline to better adapt to future social development trends. Colleges and universities can take advantage of the Internet + era to provide diversified internship opportunities for students. For example, colleges and universities actively carry out social practice activities, cooperate with enterprises and institutions online and offline, and establish employment and entrepreneurship bases for college students, so as to gain experience in practice. Exercise college students’ teamwork ability, improve their hands-on ability, combine the professional theoretical knowledge they learn in school with practical operation, better understand and apply the knowledge, and then improve their comprehensive quality and ability.

(3) An effective evaluation mechanism should be established

Colleges and universities should establish an effective evaluation mechanism, including the long-term evaluation mechanism of teachers’ teaching, the evaluation mechanism of curriculum Settings, and the evaluation mechanism of students’ practical achievements. Colleges and universities have established a long-term mechanism for teaching evaluation. Through regular self-evaluation, teachers constantly find problems, find gaps, and implement rectification, so as to ensure teaching input and truly implement the status of teaching work center. Curriculum is the basic unit of professional training plan, and curriculum teaching activities determine the quality and level of school teaching. Curriculum evaluation is an important means to promote the improvement of curriculum teaching quality. The objective of the curriculum evaluation mechanism is to evaluate the curriculum, understand the current situation, strengthen supervision, promote construction and improve quality. The evaluation mechanism of curriculum should be set up from the aspects of teaching staff, teaching

materials and teaching management, practical experiment teaching, curriculum construction and curriculum reform. The evaluation mechanism of students' practical achievements relies on the Internet + evaluation mode and uses big data thinking to investigate the vocational abilities required by contemporary college students' employment. The ability developed by college students' participation in practical education is matched with the professional qualities required by students' employment process. The evaluation basis of students' practical achievements is based on the records of students' practice process and the evaluation of the results.

(4) colleges and universities should promote the application of information technology

at present, the application of information technology in colleges and universities has achieved initial results, and the use of advanced educational information technology has realized the overall modernization of college education. However, the information construction of education is still relatively backward, the focus of information construction is biased, the task of information construction is not clear enough, and the information understanding is not in place. Therefore, it is necessary to optimize the strategy of informatization construction in colleges and universities, the concept of informatization should be changed from "important" to "necessary", the focus of informatization should be changed from "construction" to "application", the task of informatization should be changed from "technology application" to "integration and innovation", and the way of informatization should be changed from "fragmentation" to "synergy". The establishment of university information education system should further clarify the long-term goal and stage goal of education information construction, and explore the construction of a new education ecology guided by information technology and centered on learners. To provide students with more convenient and efficient learning and practice environment. At the same time, we should also pay attention to information technology education to cultivate students' information literacy and innovative spirit.

In short, the innovation of the practice system of intelligent education in colleges and universities needs to be explored and developed continuously. Colleges and universities need to continuously improve the quality of education and teaching, strive to achieve a high degree of integration of "teaching" and "education", "service" and "education", optimize the allocation of resources, make forces from all aspects form a joint force, improve the level and effect of intelligent education, and realize the effective docking of talent training and social and economic development needs.

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project: The Zhejiang Provincial Department of Education has approved a general scientific research project titled "Research on the Innovative Path of Intelligent Education Practice System in Universities in the Era of New Media and Big Data"