

Research on the Construction of Core Literacy of Information Technology Curriculum in the Age of Wisdom

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Abstract: With the rapid development of social economy, many kinds of science and technology, such as information technology, internet technology, cloud computing technology and so on, have been produced. These technologies are widely used in production and life of people at this stage. The remarkable application effect has made working efficiency and life quality of people greatly improved. Therefore, it is still necessary to apply advanced technology in the future intelligent city development to realize the pluralistic development of the society. At present, the market economy of our country presents a prosperous and competitive development situation. Therefore, if many enterprises want to stand firm in the fierce market competition, they need to absorb innovative information technology talents with core literacy. Only in this way can the strength of talents be brought into play and promote the enterprises to be stable and healthy development. However, by analyzing the teaching situation of the information technology courses offered by the school under the background of the wisdom age, it is found that teachers have many shortcomings and defects in the construction of the core literacy of the curriculum, which need to be improved urgently. Therefore, based on the development requirements of the wisdom era, this paper analyzes the basic situation of the core literacy construction of the current school information technology curriculum, and probes into the specific content of the core literacy construction, that is helpful for more schools to cultivate innovative talents and meet the needs of creative talents in the market.

1. Introduction

At present, due to the continuous development of science and technology, our social production and life are characterized by information technology and are gradually developing towards the direction of wisdom. Therefore, schools should grasp innovation and creativity characteristics of the times when carrying out the cultivation of talents in the age of wisdom, and take targeted and effective cultivation of students, so that more students can adapt to the needs of the development of the age of wisdom to achieve the healthy development of their own and society. The subject directly related to science and technology is the information technology curriculum. During the course teaching, school teachers need to attach great importance to the epoch of the information technology curriculum, which requires teachers to think about the core of the wisdom age. The characteristics and other contents are investigated and understood deeply, and then the contents contained in the core literacy of the current curriculum are deconstructed again, so as to make it conform to the standard of constructing the core literacy of the information technology curriculum in the age of wisdom, and present the characteristics of creativity, inclusiveness and transformation, that could urge students to have good quality and personal accomplishment under the influence of this kind of core literacy and ensure that the information technology course with perfect core literacy has very ideal teaching effect.

2. Analysis on the Status of the Construction of the Core Literacy of Information Technology Course

At the present stage, many colleges and universities meet the needs of social development and

set up information technology courses to impart information technology related knowledge and operation methods to students, so as to train information talents and make them master the operation methods of information tools, who can make full use of what you have learned to solve practical problems. In the development of the wisdom age, the level of educational information in our country also needs to be changed, that is, for the students to accept the information technology course teaching, they not only need to have basic information literacy, but also need to have innovative thinking and ability, in order to promote students become a composite talent with the ideas, literacy, ability of wisdom era of information in the future. However, the research on the construction of the core literacy of information technology curriculum in some schools shows that there are many problems: some teachers of information technology curriculum lack the consciousness of the research of the core literacy of the curriculum, and there is no systematic and comprehensive research on the core literacy of the information technology curriculum, resulting in the construction of the curriculum core literacy lack of the content of the era, so that the information talent training will be out of touch with the wisdom era [1]. At the same time, some teachers lack understanding of the relevant contents of the wisdom age, and fail to grasp the requirements of the wisdom age for the literacy of information technology talents, so the curriculum reform has been carried out. The optimization of teaching methods still belongs to the information technology curriculum reform that stays at a superficial level, and does not adapt to the specific needs of talents in the market. Therefore, many students lack the ability to create and innovate after studying. The talents cultivated do not meet the needs of the development of the times. Therefore, the existence of the above problems is restricting the effective construction of the core literacy of the information technology curriculum in the wisdom era, which requires schools to explore and study the above problems, so as to find out the causes leading to the problems, and then to deal with them pertinently, that can do the core accomplishment construction of the information technology curriculum in the wisdom era, and provide the help for the following innovative information technology talents training [2].

3. Analysis of Constructing the Core Literacy of Information Technology Curriculum in the Age of Wisdom

In the process of the development of the wisdom age, one of the most outstanding features is innovation, which requires the people in the wisdom age to have the spirit of innovation and the strong ability of innovation, so as to rely on their own ability. Innovation creates more things to promote the development and progress of social civilization. Therefore, during the construction of the core literacy of information technology curriculum, it is necessary to take innovation as an important reference index to carry out innovative curriculum teaching and talent training. The information technology course is the teaching subject of some cutting-edge information technology that the teacher produces during the social development of the students, so that the students can master these technologies and make better use of the information technology in the actual work and life. Therefore, the course has the characteristics of time, action and creativity, which requires students to combine the knowledge and technology to innovate the related products and make the products have more practical value. So the core accomplishment of this course mainly has the information technology and the art, the idea, the thought, the application, the innovation content, when constructs the core accomplishment needs to proceed from these several aspects, thus endows the information technology curriculum more value. This paper points out the direction of curriculum teaching, ensures that the quality and ability of students are cultivated in the course of teaching and has the characteristics of innovation and creativity in the wisdom times, so as to transport more high-quality talents for the intelligent society.

3.1 Core Literacy.

The first one is information technology and art, which requires students to have a certain ability in information technology after studying the required contents of the curriculum, and they need to have artistic characteristics in the presentation of technology. The students can apply multimedia

technology, programming technology, network communication technology, artificial intelligence and so on skillfully, who can combine different art forms in technology to show the charm of technology and realize the artistic application of information technology in many fields; at the same time, taking information technology and art as a core accomplishment, teachers can select the teaching methods of interest to students from the artistic point of view during the teaching period, so as to arouse the enthusiasm of students through teaching, that can stimulate the innovation ability of students and make them become a talented person with wisdom times in their study[3].

The second is the information concept, which means that after the students have learned the teaching and knowledge and skills of the information technology curriculum system, some new ideas and ideas have emerged in the ideological level, which mainly involve innovation, integration, sharing and cooperation. Through these ideas, we can guide students to construct the correct three views, and feel the demands of intellectual era on students own thinking, so that students can learn, obtain employment, and grow up in the future. Based on the information technology curriculum, different ideas are integrated and developed harmoniously, so as to guide students to grow up better.

The third one is information thinking, this kind of core accomplishment means that the students can look at the problem comprehensively through the course study, and no longer analyze and solve a problem from a single angle of view. It is a kind of information thinking which can guide students' study, employment and the effective development of life. Through the construction of the core literacy of information thinking, students can have relevant thinking, and then can actively cope with the opportunities and challenges brought about by economic globalization in the wisdom age, and then promote the global thinking of students. If the students cook at problems, analyze problems, deal with problems from different perspectives, they can better transform the world by relying on a diversified perspective of thinking [4].

The fourth one is information application, this accomplishment requires that students can analyze what happens in people's daily life through the knowledge they have learned, and can combine the specific types and characteristics of the problem. So students need to have the core literacy ability of information application, including but not limited to daily study, work, life, scientific research and so on. Therefore, the core accomplishment of information application is an internal driving force which must be adhered to during the course teaching of information technology.

The fifth is information innovation, which is the most critical accomplishment in the whole core literacy framework, that is, students have the innovation ability of information technology, which can meet the needs of social development to the maximum, and can change with the times. Continuously in the technology, the idea, the thinking and so on presents the innovation characteristic. In the development of the wisdom age, artificial intelligence has a very broad development space. If we analyze the current situation of infiltration and development of artificial intelligence in our work and life, we can understand that artificial intelligence technology is developing in the direction of intelligent perception. So if people want to have a strong ability to work and live in the future intelligent world, they need to carry out more creative work, under the guidance of creative thinking in the work, creative work, production innovation to avoid the situation that machines replace a large number of people in the intelligent society, so that the human being occupies the leading position in the wisdom age, and obtains the initiative power of social economic development by the information technology. Therefore, in the course of information technology teaching, teachers need to put the core literacy of information innovation in the primary position of teaching work, under the integrated teaching reform of production, learning and research, with the help of the relevant technology in the information technology curriculum to develop the innovative abilities of students in information technology, products, theory, working methods, etc [5].

3.2 Construction of Core Literacy Framework.

The core literacy of the above five aspects is indispensable in the construction of the core literacy of the information technology curriculum, which requires teachers to master the contents of different literacy comprehensively, and then to carry out the framework of the core literacy system.

In this way, we can guide teachers' teaching activities of information technology courses, and guide teachers to cultivate the innovative ability of students from different core qualities. In teaching, teachers should have the idea of "the unity of knowing, doing and creating ", so as to educate students with information ideas and thinking, so as to ensure that students have the characteristics of wisdom times on the ideological level. After the change of ideology, the application and innovation of follow-up technology can be better carried out; then we need to educate the students, which is the core accomplishment of information application, art and technology, and guide the students to develop the good behavior of information technology; finally, we should carry out "creative" education. Only when the ideas and behaviors students of have the characteristics of the times, can they be encouraged to innovate and create the contents of technology, products, etc, in order to better demonstrate the value of information technology curriculum core literacy.

However, the curriculum core literacy constructed is not static, it can change to a certain extent with the development of society and economy, so after the information technology curriculum core literacy is constructed, it is also necessary for teachers, based on the students undefined learning ability and literacy, the evolution of the times, and the teaching of information technology courses at different stages, to divide the corresponding literacy into difficult levels, so that students can in the each stage of the primary, secondary schools and university receives the gradual education of the core accomplishment of the information technology curriculum. In different stages, the corresponding teaching objectives, contents and methods of the course are selected for teaching, so that students can master the core accomplishment of infiltrating education of teachers in the corresponding stage, so that students can have a strong interest in the information technology courses of the times in their study. We can rely on our own initiative to explore the contents of information technology curriculum, wisdom era and so on, in order to enable students to have the ability of wisdom innovation in curriculum study and to carry on the effective sublimation to the curriculum core accomplishment content, enables the student to be able to make the more contribution to the country social stability, the economic progress and the people's peace and contentment, and promote the information technology curriculum core literacy in the future to continue to guide a large number of high-quality personnel training work [6].

4. Conclusion

The construction of the core literacy of information technology curriculum is of great significance to meet the needs of the development of the wisdom age, to promote the revolutionary development of curriculum teaching, and to realize the effective cultivation of innovative talents. Therefore, when developing the teaching work of information technology curriculum, the school should pay attention to the construction of the core literacy of the curriculum, grasp the content of the construction of the core literacy, and formulate the teaching objectives, contents, strategies teaching evaluation of the information technology curriculum to improve the quality and effect of course teaching, to enhance the quality and ability of students in the new era, and to promote the students to have more competitive advantages in the intellectual age and the workplace.

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