

# Study on the Countermeasures of University Education Informationization Construction

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**Abstract:** In order to make the healthy development of college education informatization construction work toward positive direction development, universities should from the thought, the subjective and objective factors such as capital, technology, establish the multi-dimensional and directional strategy layout and positioning, explore the effective education informatization development strategy, constantly promote college education informatization construction and development.

**Keywords:** College Education; Educational Informatization; Innovative Talents

## 1. Introduction

Education and teaching informatization is the process of making use of advanced network technology and computer technology to realize the network of basic teaching platform, realize the scientific organization and management of education and teaching activities, and promote the modernization of teaching. Digitization of teaching resources and modernization of teaching management. This is not only a change in the way, but also a new integration of the teaching system from the perspective of information, and ultimately achieve the goal of information education and teaching.

## 2. On the Construction of University Education Informationization

### 2.1. Digital Campus to Smart Campus Transformation

Smart campus is the performance of digital campus upgrading to a certain stage, the cornerstone of its development is the construction and development of early digital campus. Smart campus has the following characteristics.

First, the campus environment can be fully perceived. The perception of the environment can be divided into two aspects: one is the information about people, equipment and resources, which can be sensed, captured and transmitted by sensors; Secondly, learners' personality characteristics and learning situations can also be perceived, captured and transmitted, such as learners' learning styles and preferences.

Second, thorough connectivity and connectivity. Relying on network and communication technology, as well as mobile Internet technology, all hardware devices and software system connections are supported by the smart campus. Once the information is perceived, it can be transmitted quickly and in real time [1].

Third, massive data support. Using data mining and modeling techniques, "massive amounts" of data can be used to trend, forecast and predict the information.

Fourth, open learning environment. In the smart campus, students can break through the restrictions of textbooks and get more digital teaching resources. Students also can not be limited by the time, the learning in class can extend to the after-class; Students can also break through the limitations of space and effectively study in both real and virtual environments.

Fifth, provide personalized services for teachers and students. Intelligent campus is characterized by the use of a variety of major technologies to provide personalized services. Many practical problems in campus life, study and work can be solved by teachers and students. The construction of digital campus

in universities can meet the above characteristics and move forward to the construction of smart campus.

## **2.2. Innovating the Technological Mode of Higher Education**

As long as there is emerging technology and its application, higher education will inevitably bring about a "technological revolution", cloud computing, cloud services, virtual reality technology, mobile learning, Internet of things technology made an impact on the current university education informatization construction, the technical way, can be actively used in order to help university education informationization construction [2].

Cloud computing can greatly reduce one-time capital investment in hardware and software infrastructure of colleges and universities. It can promote the sharing of educational information resources and realize the integration of resources.

Virtual reality technology is a kind of can create and experience the virtual simulation system of the world, using computer to generate a 3 d simulation environment, in this simulation system, students can get unlimited virtual experience, students can feel the 3 d human body model, such as feeling of space travel and so on, the student through this experience, can deepen the knowledge of learning effect.

Mobile learning technology. Mobile learning means that students can study anytime and anywhere using mobile devices. The device used by students effectively presents that two-way communication between teachers and students may be necessary.

Based on Internet of Things technology: Network technology is developed, RF technology, sensor technology, and global positioning system, laser scanning technology, depending on specific protocols, according to network access, information exchange and communication by arbitrary objects made. Realize intelligent identification, positioning, tracking, monitoring and network technology management.

## **2.3. The Informatization of College Classroom Teaching**

The main function of college education is talent, curriculum education is the foundation of talent training. At present, universities usually attach great importance to teachers' scientific research. Scientific research is very important, but traditional route education can not be ignored, and the educational informatization of route can not be ignored. In the construction of university education informationization, the informationization of education route occupies a relatively low place. The university line of education information, information education ability and the improvement of the level of teachers, while enabling students to provide effective learning support services in a timely manner, professor of law changes, has promoted the students often need to improve 'digital learning ability.

## **2.4. The Information Literacy of College Teachers and Students Needs to be Strengthened**

In 1989, the American Library Association defined information literacy as follows. "Information literacy requires recognizing when information is needed and being able to extract, evaluate, and use it effectively." In fact, the definition of information literacy also reflects the requirements for talents in the construction of educational informatization. As teachers and students in the information technology environment, they must have certain information literacy or strive to improve information literacy in order to adapt to the information learning. The four elements of information literacy are information consciousness, information knowledge, and information ability and information morality. Information awareness refers to the use of computer and other information technology to solve their own problems in work and life awareness [3].

# **3. The Strategy of University Education Informationization Construction**

The task of educational informationization in colleges and universities is difficult, so we should be prepared for long-term construction, and fight a tough battle of college informationization construction, based on the premise of fund guarantee, basic construction, strengthening construction as the core, and enhancing efficiency. At present, the educational informatization of colleges and universities has been in the stage of comprehensive exploration, and the objectives, planning, programs and implementation

need to be further implemented. Therefore, the informatization construction of colleges and universities needs some strategies in the process.

### **3.1. Effectively Implement Funds to Provide Financial Guarantee for the Informatization of Higher Education**

In the development of higher education, the current situation of underinvestment. Universities are operating and the cost of maintaining schools and tuition fees is relatively high. The construction of educational informatization improves the investment value of universities. Therefore, the development of universities is bound to be strictly limited, and the application of information technology in higher education can not be extended at all. Therefore, when the strategy is formulated, it is necessary to find a long-term mechanism for strengthening cooperation between the state, enterprises and schools based on the actual situation of the university [4].

First of all, excavate the existing resources of colleges and universities, fully integrate and use them, and strive for the source of funds. With the innovation of technology, supported by information technology and multimedia technology, college teaching has been fully using various technologies as its own teaching means to enhance its teaching level [5].

Secondly, the deep integration of industry and education and the close cooperation between schools and enterprises are effective ways to promote the survival and development of universities. At present, with the development of higher education, especially the establishment of applied universities, it has become a trend for enterprises to participate in the development of universities.

Thirdly, as modern educational technology plays an increasingly important role in the development of colleges and universities, the informational construction of college education has become inevitable. Therefore, colleges and universities should have sufficient budget in the annual financial budget as the fund support of school information construction, the government should also give support, and strive to achieve "overall consideration, support key points" [6].

For information construction of colleges and universities, the establishment of special funds and management is to promote and safeguard the focus of the construction and development, especially for special fund sources, more should break the routine, breakthrough thinking, can with the help of social power, by well-known alumni, distinguished professor, and even set up special funds of construction of informatization, overall management, reasonable use, Ensure that the funds of university information construction are put into practice.

### **3.2. Strengthening Joint Construction and Sharing of Information Resources Centering on Infrastructure Construction**

Software platform construction is the most important part of university information construction, which is the prerequisite. Building a platform is the basis of information sharing and the next step of information construction [7].

First of all, when applying for infrastructure construction, we should not only consider the amount of capital, but also adapt to the development of the school according to the actual needs and situation of the school. In this way, appropriate responses can be made beforehand. Three to five years of medium - and long-term development of the school infrastructure construction is the network system. Only when the infrastructure construction is planned comprehensively, can the construction of information university be hopeful and contribute to the construction and development of university. Second, the construction of infrastructure based on the concept of services and the strengthening of big data exchange have improved efficiency [8].

### **3.3. Take Learning as the Foundation and Use Information Technology to Improve the Teaching Level**

Today, with the vigorous development of MOOCs and micro courses, the improvement of information technology level also reflects the improvement of teaching level.

First of all, college teachers should establish "golden courses", cancel "courses on water", develop a large number of online courses, and develop a mixture of online and offline courses. The level of teacher guidance, times cooperation, "teachers say that students learn" to get rid of the existing guidance model, and guide the role of students, real "moral education" as the goal, so it is necessary to

recruit. Therefore, education information technology, maximize the use of the site, the group developed after the age of college students enjoyment method is necessary to design the route [9].

Second, the process of media integration, in order to adapt to the modern society of all media era has entered. The whole personnel training process should pay more attention to the combination of information technology and education process. In particular, the organic unity of route education, information technology, information resources and information methods, the learning mode in the classroom is substantial, students' enthusiasm for learning is high, and the subjective desire of students who are active in learning cannot be realized.

Thirdly, the teaching application of university information should be guided correctly and encouraged effectively. In the face of the media convergence, the information technology development, the college teachers to master the ability of information technology presents a profound challenge, students' learning, teachers should also according to the age of advancing with The Times, especially a lot of old teacher, for multimedia, is not very good at the use of modern information technology, more do not know how to start, colleges and universities should be targeted correctly guide teacher self learning and charging.

### **3.4. Construction of Assessment System to Ensure the Ecological Development of University Information Construction**

University information construction is a long-term process, in addition to strategy and construction standards, there are evaluation mechanisms. In fact, the university's existing information construction process, the construction of evaluation system is very weak, the construction of the university's information guidance center is the construction, conservative, efficient use, and detailed plans for environmental development [10].

Evaluation and evaluation system construction, organization and leadership ability, management mechanism, capital investment, infrastructure construction, construction of resources, team building, application ability, and other regional characteristics, according to the actual situation of the school is necessary. Especially in the early stage of university information construction, if it is divorced from reality, it cannot play the role of evaluation.

## **4. Conclusion**

To sum up, in the age of media convergence, information technology has affected every field of life, and the form of education has undergone fundamental changes. If the information construction of universities remains at its original low level, it cannot reflect the level of higher education in the era of media convergence. The information construction of colleges and universities reflects the level and ability of the information construction of colleges and universities, and reflects the scientific management of the information construction. In the construction process, we must organize the construction efficiently, unify the planning, earnestly implement, consider and work together. Implement talent training in scientific processes.

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