

## **The Practical Research of Computer Technology in Educational Management Information Construction**

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**Abstract.** In the work of traditional education management, the efficiency of education management is affected by the lack of comprehensive understanding of the connotation of information management, the weak foundation of information construction and the unsound management system. To this end, we should correctly understand the value of education management information construction, through the use of computer technology, accelerate the process of education management information construction. This paper analyzes the value of computer technology in the construction of educational management information system, and puts forward some practical strategies.

**Keywords:** Computer technology, Education management, Information Construction, Practice strategy

The informatization of education management based on computer technology helps to promote the innovation and upgrade of education management model, improve the efficiency of education management in an all-round way, and master students' information accurately and comprehensively, improving the digital, networked and intelligent level of education management by using the new generation information technology, promoting the transformation of education decision-making from experience-driven to data-driven, education management from one-way management to collaborative governance, and education service from passive response to active service, in order to realize the wisdom optimization of the education management system.

### **1 THE APPLICATION BACKGROUND OF COMPUTER TECHNOLOGY IN THE CONSTRUCTION OF EDUCATIONAL MANAGEMENT INFORMATION SYSTEM**

#### **1.1 The structure of resource utilization in teaching management needs to be optimized**

Constrained by the traditional education model, the exploration of teaching management measures is still in a relatively backward stage, unable to effectively adapt to the current rapid development of information trends. A great reality of the development of education in China is that there is regional imbalance to a great extent, which is also an important factor in the irrational use of resources in teaching management. There are certain negligence in the management of teaching units and relevant organizational departments, and there are certain deficiencies in the cultivation of management ability and the construction of management resources, it leads to the waste or shortage of resources in the structure of resource utilization, which affects the current teaching management.

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### **1.2 Insufficient information processing capacity in teaching management**

For a long time, the relevant teaching units and administrative departments have the defects in teaching management measures, which leads to the omission of some information links in the deployment of teaching management, some information processing lacks the effective response measure, or does not have the corresponding processing mechanism, causes in the information processing ability to have the development short board. This has affected the current teaching management related work, has produced the development demand of information processing.

### **1.3 Insufficient synergy in teaching management**

Due to the lack of comprehensive and systematic teaching management measures and effective coordination and cooperation among teaching management departments, there are to a certain extent information barriers and communication barriers, as a result, there are considerable management gaps in the overall management effectiveness of teaching management, in general, this aspect is also the most fundamental reason that causes the out-of-control of teaching management among different teaching units and different teaching management departments or seriously affects the effectiveness of teaching management. The construction of computer information will help to break the unequal distribution of resources in the present teaching management environment, and through the open, systematic and equal application of information technology, to realize the effective adjustment of the resource allocation under part of teaching management, to realize a more balanced and favorable information environment, and to promote the resource optimization in the teaching management process, to form a more comprehensive development of teaching management.

### **1.4 Lack of information management concept in teaching management**

It is often restricted and influenced by the traditional ideas of teaching management, and in the process of carrying out teaching management measures, it does not pay attention to carrying out effective information management measures, to a certain extent, it weakens the effect of top-down teaching management measures and neglects the effective effect of bottom-up teaching management feedback, this is also restricting the current teaching management measures should have an important reason for success. The lack of information management concept is an obstacle to the development of teaching management. Only through the computer information technology to achieve various related applications in the teaching management process, complete the teaching management of information management tasks, in order to really provide a suitable teaching management of the implementation of the concept of comprehensive information management of a conducive environment. In general, only by adhering to the deep application of computer information technology can the relevant management ideas of integrated information management be effectively implemented, and the information management ideas in teaching management measures be perfected, can enhance the teaching management activity under the informationization development condition the sustainable development, enhances the fitness.

## **2 THE PRACTICAL ELEMENTS OF COMPUTER TECHNOLOGY IN THE CONSTRUCTION OF EDUCATIONAL MANAGEMENT INFORMATION SYSTEM**

In the era of big data, the construction and management of educational management information system should include the technology of big data processing in the present educational management model, so as to promote the level of educational management. It is also necessary to make a careful analysis of the social needs of the big data era, to realize the deep integration of information technology and education and teaching, and to enable education informatization to

play a guiding and supporting role in deepening educational reform, at the same time, it also improves the effect and quality of education management, and provides impetus for the continuous progress of education management system.

In order to give reasonable guidance to the macro-distribution of educational management information construction, first of all, the basic thinking of educational management information should be made clear, and secondly, the basic orientation of schools should be rationally planned according to the basic laws of educational management, finally, we should guide the future development direction of the school according to the talent training goal. Reasonable guidance of macro-layout can not only lay a foundation for achieving ideal results in the construction of education informatization, but also control the process of the construction of education management system accurately, to ensure the smooth progress of the construction of educational management informatization.

The foundation condition construction is the foundation and the important component of the education management information construction in the new era. For example, the full coverage of the Internet, installation of multimedia and other basic conditions are the construction. In order to ensure the informatization construction and management of schools, the most important thing is to strengthen the construction of basic conditions, use advanced information technology to improve the infrastructure of schools, and promote the further development of educational informatization construction, at the same time, it promotes the teaching efficiency and lays a solid foundation for the construction of Educational Management Information System.

Educational resources are the key to realizing the construction of educational management information system. Therefore, school leaders should pay more attention to and develop educational resources by developing them in an all-round way, it not only urges educational resources to play a greater role in the construction of educational management informatization, but also genuinely and effectively evaluates the use of the management system in the teaching process, in order to find the problems in the Management information base and solve them in time, the education management information system can serve for education and teaching.

The construction of educational management information is inseparable from talents, and the cultivation of talents and educational talents is also an important content in the construction of educational management information. Therefore, the school should take the talent development as the construction basic principle, strengthens the talent introduction and the training dynamics, and aims at the talent shortage question, formulates the corresponding talent introduction and the training system, perfect the talent information and talent structure, promote the education talent to play a greater role in education and teaching, and finally make the education management information system more scientific and perfect.

### **3 THE FUNCTION OF COMPUTER TECHNOLOGY IN THE CONSTRUCTION OF EDUCATIONAL MANAGEMENT INFORMATION SYSTEM**

Scientific analysis. In education management, the data of teachers participating in various types of competitions, teaching data and scientific research data are closely related to the management system and management mechanism, and there's a pattern to it. In addition, the application of Big Data Technology in education management plays an important role in scientific decision-making, monitoring public opinion and mastering students' needs. There must be some correlation between students' academic achievement, dining situation, book borrowing, internet surfing habits and ability quality, and by means of data analysis, we can analyze and extract the existing laws and relations to realize the scientific and effective education management.

Resource Integration. The construction of big data platform between Regions and regions belongs to the advanced level of resource integration and plays an important role in the fields of resource saving and education development.

With the development of science and Technology, BIG DATA technology in developed countries has achieved remarkable results in resource integration. Only by integrating resources, can the utilization value of resources be maximized.

Precision Education. Educational management objects are different, so teaching students according to their aptitude, individualized management and diversified personnel training have always been the ideal of education. In the process of teaching management and educational management, educational administrators need to respect the differences of students in ability, interest, personality and family background. The application of big data technology can customize the curriculum list and training program for different students to ensure that every student can enjoy the high quality teaching and education resources. Precision education based on big data technology can not only meet the actual needs of individuals, but also analyze and predict the rules and trajectories of students' activities, which can be fed back to teachers, finally, the realization of accurate education, accurate help.

Two-way interaction. The teacher and the student may in the big data teaching platform real-time interaction and the exchange, answers student's question. On the platform, teachers can monitor students' learning progress and speed of problem-solving in real time, and make relevant treatment according to the actual situation. For other learners, teachers can also use big data teaching platform to guide and explain. In the process of carrying out ideological and political education work, the two-way interaction is particularly significant, encouraging students to actively participate in the educational proposition, and arousing the students' sense of ownership, the role of peer effect can be better played to achieve students' self-development, self-education goals. Early Warning. Because big data has the early warning nature, therefore has the vital significance in the development education management work. Specifically, it is necessary to set the critical point and tolerance to deal with the abnormal information. When the abnormal information reaches the limit, the alarm system will automatically start, and make the risk prevention and processing in time.

#### **4 THE PRACTICAL STRATEGY OF COMPUTER TECHNOLOGY IN THE CONSTRUCTION OF EDUCATIONAL MANAGEMENT INFORMATION SYSTEM**

In the era of big data, in order to make the formation and development of education and teaching information better, in view of the current situation of education management information, the first thing is to implement the construction and innovation of Information System. In the work of education and education management, it is necessary for schools and relevant personnel to formulate a scientific and reasonable information work system in which the application of Big Data Technology and information technology is regulated, in addition, relevant technical specifications should be given so that the application of Big Data Technology and Information Technology in education and management will be more standardized, and the standardization of data and information can be guaranteed, on this basis, it can provide a system basis for the implementation of education management information. At the same time, it is necessary to innovate the educational management information system, so that the content of the information system can be improved and updated, and provide an effective basis for the development of educational management information.

In the aspect of the realization of educational management informationization, on the basis of the construction of the informationization work system, we also need to make use of the relevant technical means, and we need to further strengthen the application of big data technology in educational management, to provide technical support for the realization and development of educational management informatization. As the staff of education management in the new era, we should pay more attention to the application of big data technology, and realize the value of big data technology in realizing the informationization of education and teaching, therefore, it is necessary to apply big data to the construction of educational management information. Education administrators can use big data technology to build

education and teaching information management platform, and can also related to the database, so that the education management of various kinds of information data more rich, it can realize the reasonable storage and application of all kinds of data information, and make the realization and development of educational management informatization have ideal data support.

In the realization of educational management informatization, there is a great demand for various kinds of data information, and there is a high demand for it. Therefore, it is necessary to manage various kinds of data effectively, to provide data support for the realization of educational management informatization. As educational administrators, they should have a better understanding of the data and information of each department within the school, and effectively integrate these data to make all kinds of data and information unified, the data of different departments can be better understood, in this way, education management with rich information data support, it can also promote information management more effective implementation.

## 5 CONCLUSION

Under the background of big data era, the informationization of education and teaching management has become the inevitable trend and requirement of the development of education and teaching management, so it is necessary to actively realize the informationization of education and teaching management, and further innovative development is needed. Based on this situation, education and teaching administrators fully understand the related problems in the informatization of education and teaching management, and aim at these problems to realize the effective management of data and information in education and teaching management, and through the effective application of big data technology, the function of all kinds of data information can be brought into full play, so that the realization and development of education and teaching management informatization can be supported by meaningful data information, to get the desired result.

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