

# The restrictive factors and countermeasures of the construction of university management information

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## Abstract

With the arrival of the era of big data, it has become an inevitable trend to carry out the construction of management information system in Colleges and universities, how to implement the management mode and operation mechanism of the information university faster, better and more efficiently, to promote the process of university management reform and improve the management efficiency of colleges and universities is the problem of the current university management information construction. This paper discusses the necessity of management informatization construction based on the analysis of the existing problems in information technology, and according to the current situation and existing problems, put forward to promote the reform and innovation of management in Colleges and universities for the content and strategy of university information management purposes, in order to college information management work to provide some reference.

## Keywords

University management; Informatization; Countermeasure.

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## 1. Introduction

The rapid development of computer technology and communication technology has penetrated into all areas of people's lives, university management information construction based on information technology has become a trend of the reform of the internal management of colleges and universities in China, and become an important driving force for the reform of internal management system in colleges and universities.[1] At present, the comprehensive development of higher education of university management has put forward higher requirements, the popularization and promotion of campus network, and create opportunities for the construction of management information system, also presents new challenges, therefore, we must attach great importance to the construction of management information system.[2] This paper tries to analyze the necessity and the restriction factors of the management information system in Colleges and universities from the two aspects of the theory and practice of the management of colleges and universities, and suggestions on promoting the construction of university management information.

## 2. The necessity of information construction in Colleges and Universities

In the era of informatization of education the number of college students increases rapidly, the implementation of credit system of teaching management, teaching diversification, the increasing amount of information and employment system changes, brought great challenges to the management of college students, as the education management support and service education activities, its modernization and informatization construction is particularly important.[3] The information construction of colleges and universities can optimize the allocation of resources of the school, the school management structure optimization, so as to enhance organizational vitality; standardization also can promote the management work of colleges and universities, to promote the leadership of the

scientific decision-making; also can improve the overall quality of management, the long-term development of the school plays a vital role.[4]

### **2.1 The Main Problems in the Information Construction of Colleges and Universities**

At present, the construction of university management information has been basically perfect hardware facilities, management information system development technology has been more mature, but the development of the management information system is not satisfactory. There are a lot of problems in the construction of information management in Colleges and universities, such as the lack of overall planning, information islands, redundant construction, etc.. From the perspective of the practice of the construction of the management information system in Colleges and universities, there are several reasons for the above problems:

#### **2.2 First, The Lack Of Persistence In The Construction Of University Management Information**

Bring the benefits of information technology in management of colleges and universities must run before gradually emerged, and the information construction process will encounter a variety of problems and difficulties, can not be achieved, which leads to the work of the benefits are difficult to attach great importance to the leadership, if not set clear, long-term planning, construction will lead to the construction progress slow phenomenon, the enthusiasm of staff management issues. Therefore, the construction process requires systematic, integrity, scientific assurance, there is no orderly construction of the desired effect is not expected.

#### **2.3 Second, the Concept of Attention Is Not Enough to Affect the Construction of University Management Information**

For those who are accustomed to the traditional management methods, they often hold the attitude of the school management information construction, exclusion of new information management. This requires the school organization management learning information management technology, understand the information management convenience, grasp the information management process, establish the consciousness of information management in Colleges and universities, in essence to bring us the influence of information management, so that managers willing and happy to use the information management system to complete the management work, the management of the real information.

#### **2.4 Third, Changes in the Work of Information Management Constraints**

The management information system is an innovative work, whether the implementation of the project management information system or operation managers need learning information, but learning new knowledge inertia is a common problem existing in university information management. To complete the information management must master a new technique, and the original management mode change management appeared a huge difference; the errors in the process is to promote information management work to bring a strong resistance, managers can easily give up the new information management work and the managers give up halfway, lack of power to promote informatization, or even the existence of different degrees of psychological resistance of new management mode of learning. In addition, property management personnel busy work limits the time and opportunity to learn new skills, the frequent movement of personnel, leadership and the change of staff flow, often make the system halfway in the construction of die, has become the restricting factors of university management informatization construction.

#### **2.5 Fourth, Isolated, Single Function of the Information System to Control the Effectiveness of Information Management**

Efficiency is the lifeline of management. School management information system at present, usually students have student management system, personnel management system, teachers have academic teaching management system, teaching management system is essentially a combined arrangement, selection, management of the three subsystems. Due to a variety of school system is relatively

independent, and its department needs, only has a single function, the time of the development system of different compiled using different languages, different languages use platform compatibility is poor, resulting in various departments in the formulation of unified information standard, resulting in data using only real-time transmission the Department, can only provide the required information from the information perspective and point of view, poor data sharing. So that all the relevant departments have a large number of basic data, and make the information system analysis and evaluation of the basic data and the role is difficult to achieve. For example, in all kinds of information collection and examination registration for students, students self reporting information table, often appear in the name, identity card number input error etc., usually need to staff one by one proof, if all the departments can from the office of student information database retrieval of relevant information can easily solve the problem.

### **2.6 Fifth, the Organization and Management of the Lack of Effective Operating Mechanism for the Construction Of University Management Information Constraints**

The sustainable development of any work needs to improve the mechanism of protection, and ultimately the responsibility to implement the responsibility of the right to work in a unified department. The construction of management information is not only a management problem, but also a technical problem. The smooth development of this work requires the tacit cooperation between managers and technical personnel, the need for active participation of various management departments. At present, the hierarchical organization management mode in Colleges and universities emphasizes the strict level management. Because of the limitation of the organization and management structure, the information sharing can not be realized, and the information flow is useless.

## **3. Effective Countermeasures to Promote the Construction of University Informatization**

### **3.1 First, the Construction of University Management Information Needs to Develop Long-Term Planning**

The management information system is an innovative work, the informatization construction of university management is one from low level to high level, from simple to complex development process, not a short-term behavior, so the school needs unified planning, step-by-step implementation, demand-oriented, breakthrough, gradual, and complete the comprehensive management informatization construction work.[5] The process of management information construction is a process of accumulating experience, changing ideas, improving quality and accumulating talents, or a process of running in and adapting to the management system. Technical department, management personnel, leaders, teachers and all the participants are required to participate in the work of colleges and universities management informatization construction work, with the information management work on thinking and action, to develop long-term planning to lay a good foundation for continuing to carry out the work.

### **3.2 Second, Colleges and Universities Need to Strengthen the Management of Information Technology Personnel Training**

The management information work has the development, in this process the management work from the surface information to the gradual thorough information processing, will cause the manager's work to be simple. The management personnel in Colleges and universities usually have high education, high level, so they have a higher information literacy, provides the possibility for the informatization of college management, need only the participation in university information management work familiar with the work flow, the skills of using learning methods and information management tools, to faster and better adapt to the need for information management the early realization of the daily management work. At present, the university personnel system makes the liquidity management more, need to provide the old with the new way such as mentoring makes the

new management team of personnel information management technology as soon as possible to adapt to the information management work.

### **3.3 Third, the Construction of University Management Information Needs to Standardize The Data**

The computer information system in Colleges and universities should be established on the basis of the overall planning of the information resources of the whole school, whether it is self-developed or purchased. Information resource planning refers to the process of collecting, processing, storing, transmitting and using information of various departments, and establishes the process of data standard. During the process of informatization construction in Colleges and universities is the standard of information, including information classification encoding standard, data source definition standard, standard technical specification, the application of information technology and business platform standardization standardization. For example, the establishment of a unified classification and coding of information, staff management personnel coding, the number of students in the school management code, teaching management, professional coding, etc., must be prepared according to the standard. The same data must be one time, one into the system, rather than multiple, multiple input system, as the source data". Each department has its own source point data, but also need to use someone else's source point data". The establishment of a unified data platform through overall data planning, communicating "information island", "integration of information resources, and realize the data sharing and mining the value, so that each internal departments, between departments, departments and external units are frequent, complex information flow, improve the utilization of information resources. In the hardware construction, colleges and universities to change the new equipment, the more high-grade, the more advanced the wrong concept of the system. Computer and network hardware depreciation quickly, the actual situation of colleges and universities is not suitable for doing too much in this regard.

### **3.4 Fourth, Colleges and Universities Need to Standardize the Construction of Information Management System**

With the expansion of colleges and universities, the management level and institutions are also developing. The result is that the organizational structure is more and more bloated and the management process is more and more complicated. An opportunity of informatization construction to reform the management system on the one hand, the university must from the overall and systematic consideration based on a network management system architecture, the overall planning of the level of informatization construction, namely how to establish a management system based on E-government network, the school of management systems such as educational management student management, financial management, logistics management, campus management and other systems to a unified platform. In order to university management informatization construction work smoothly, we must adjust the organization structure of the existing management, encourage innovation work, scientific division, and improve the efficiency and quality of the management of colleges and universities.

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