

# Research on the Present Situation and Countermeasures of Teaching Operation and Management in Colleges and Universities Under The Background of Informatization

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## Abstract

As the information technology develops rapidly and the education informatization has been gradually applied, the management mechanism of teaching in colleges and universities has gradually begun to use modern equipment. Teaching operation management is a key part of colleges and universities, so how to use modern information technology has become one of the important research topics for relevant educators. Accordingly, on the basis of the investigation of the current situation of the application of informatization in the operation and management of colleges and universities and the analysis of the problems presented, the corresponding measures are put forward according to the innovation points of the operation and management of colleges and universities.

## Keywords

Informatization background; Teaching operation management in colleges and universities; Current situation and countermeasures.

## 1. Introduction

In recent years, information technology represented by multimedia technology, Internet and other teaching platforms and information collection and management has been extensively applied in the teaching operation and management of colleges and universities. However, it is inevitable that the operation and management of colleges and universities need to deal with some challenges in the information construction, because it is confined by the traditional thought to a certain extent, which suggests that we should constantly improve and innovate the teaching operation management methods on this basis, so as to realize the qualitative leap of teaching management.

## 2. Importance of Informatization in Teaching Operation and Management in Colleges and Universities

The informationization of teaching management in colleges and universities is an important measure in the reform of educational administration in colleges and universities, and it is a complex project. Its purpose is to reform the traditional educational management methods by using modern information technology according to the ideas of higher education and management, and to effectively organize and control educational management activities, so as to promote the development of educational management in colleges and universities. Higher education must meet the needs of the development of educational informatization. Teaching management should further improve the function of school teaching management on the basis of establishing scientific information-based teaching management, so as to promote the effectiveness of educational management. With the further development of China's socialist modernization, the purpose of ordinary higher education is to cultivate innovative talents with

high professional skills and all-round development. Teachers in colleges and universities pay more and more attention to the cultivation of students' thinking, innovative ability and literacy, and the cross-connection among various majors. The informationization of teaching management in colleges and universities can improve the efficiency and quality of teaching management. Colleges and universities can develop computerized educational management information system according to institutionalized requirements and teaching management process, and assist educational administration departments to carry out related teaching work through networked educational management information system.

### **3. Deficiencies Faced By Information Technology in The Operation and Management of Colleges and Universities**

#### **3.1. Managers Lack the Concept of Information Management**

Most of the managers in the teaching operation and management of colleges and universities have not received special education and training, and lack of understanding of the use of information technology and the basic ability of cognitive level. At present, there is a general lack of information management in the educational management of colleges and universities in our country. With the deepening of China's higher education reform and the rapid development of information modernization, educational managers in colleges and universities have gradually realized the importance of information management to education and teaching management. However, the educational management of colleges and universities does not follow the basic concept of modern management and people exercise their duties related to their work. In teaching practice, their overall consciousness is not important, and their attention is too much in the hardware facilities of information technology, which leads to the neglect of the reality of information engineering and the selectivity of software. This not only affects the quality management level of educational work, but also affects the overall development trend of education and teaching in colleges and universities.

#### **3.2. The Level of Informatization Application of Teaching Management Personnel Is Low**

The in-depth promotion and application of information technology not only brings new ideas to the teaching management in colleges and universities, but also puts forward higher challenges and requirements for the relevant managers. In order to regularly promote the development of educational management, the relevant managers must actively comply with the development trend of the times, actively learn information management technology and put it into practice. The teachers and administrators of some colleges and universities in China are satisfied with the status quo and do not effectively supplement the existing management knowledge, resulting in they can only engage in some basic and detailed work. As a result, educational management is weakened and difficult to develop in colleges and universities.

### **4. Measures to Promote The Effective Use of Information Technology in The Teaching Operation and Management of Colleges and Universities**

#### **4.1. Change Thinking and Establish the Concept of Information-Based Teaching Management**

The development of teaching management informatization is not only a comprehensive transformation of the original management ideas and management concepts of the school, but also a process of systematic analysis, design and decision-making of the teaching management process with the concept of information development. Under the environment of the vigorous development of information technology, higher vocational schools should get rid of the shackles

of the traditional concept of teaching management and form a new and benign idea that adapts to the reform and development trend of higher education in China. And through the new concept to implement in all aspects of school management and teaching activities. Only under the guidance of the scientific and effective concept of information development management, can we improve the modern consciousness of every educational participant, and realize the mutual integration of the modern educational management of higher vocational schools and the long-term development strategic planning goals of higher vocational schools. In this process, the relevant functional departments and relevant staff of the college can carry out unified planning, guidance and cooperation according to the characteristics of the school, and deeply study a new educational information model, which is more suitable for the practice of the university, so as to promote the modernization and informatization of school education construction, and provide a broader development prospect for the reform and development of college education. In addition, we can also use large database, data mining, and artificial intelligence technology to master accounting and other information knowledge, and enhance the accuracy and standardization of teaching information and big data inquiry. In order to better provide high-quality information consulting services for education, teaching, research and other work.

#### **4.2. Increase Investment and Update the Hardware Supporting Facilities of Teaching Management Informatization**

Compared with the information level of higher education management in overseas developed countries, there are still great differences in Chinese higher vocational schools. This requires that in the process of carrying out the construction of teaching management information, Chinese higher vocational schools should timely sum up their own information practice of higher education management, and implement the multi-channel investment mechanism of the combination of national, regional and colleges and universities. Specifically, the local government should incorporate the management information construction project of Chinese higher vocational college education into the education plan, guide and help educational units to actively participate in the information construction project, introduce technology and capital, improve the relatively backward infrastructure of teaching management in Chinese higher vocational schools, use well-performing educational information technology and equipment, and promote the effective connection between school teaching management equipment and network, so as to meet the new requirements of socialist modern education, and promote the orderly development of school education management information work. In addition, the higher technical vocational school itself must also improve and perfect the policies and regulations that can promote the development of the modern network of teaching management, so as to enable the functional management departments of the school to have laws to abide by in practice, and thus, achieving the scientific and modernization of education management.

#### **4.3. Improve Managers' Information Quality and Education Management Ability**

With the advent of the information age, there is a new demand for the information ability and quality of the teaching management staff in higher vocational colleges. Higher vocational schools should attach great importance to the far-reaching impact of information technology on school teaching management staff, and should pay more attention to the construction of teachers, so as to further improve students' information technology quality and management ability and highlight the advantages of information management, and thus, improving the educational level of our school. Firstly, it is necessary to make further efforts to improve the digital technology level and management business ability of our school education managers, and use effective methods such as on-the-job training and enterprise technical training to implement comprehensive training for managers in a targeted, targeted and focused manner.

Its contents include: mastering modern information management technology, and being able to skillfully use computer technology to complete electronic documents, chart control and database management, so as to further improve students' information management technology and professional ethics. In addition, in the usual process of teaching management, the Institute of Education is also suggested to set up a performance evaluation system to carry out phased inspection and evaluation of teachers and staff, and to give appropriate material and energy awards to those who have performed well in management, in order to encourage the highest degree of initiative and enthusiasm of teachers and staff, and thereby, ensuring that the school teaching management information construction management can be carried out smoothly.

#### **4.4. Set Up A Development Team, Do A Good Job In Talent Training and Reserve**

It should create conditions for the promotion and follow-up function extension of the information system, but the development and operation of any application software is a process of gradual and continuous expansion and improvement, which can not be achieved overnight. Its maturity lies not only in powerful technology, but also in timely innovation following the pace of the new era and the requirements of users. For some colleges and universities that are responsible for the current educational administration system and information construction, they have more than ten years of independent research and development achievements and application experience, the database is relatively perfect, and the teaching function is also gradually improved. What is more, the school educational administration office always occupies a leading position in the development, and has mastered the key technology. Therefore, it is suggested that they should make good use of the innate advantages of personnel, knowledge and facilities in the development of software, and make use of the resources of personnel and facilities in colleges and universities. In particular, the systematic research work should be closely combined with the student practice activities of the school, and the students who love the development of computer science and information technology should be selected by the leadership of the academic Affairs Office to form a team to carry out dynamic management. It is a very favorable attempt to constantly supplement innovative talents and pay attention to echelon construction. This will inevitably create a rare platform for college students' scientific and technological practice, and enable schools that can participate in innovative activities to constantly experience and practice their own life value.

### **5. Conclusion**

In the context of the information environment, the educational management of higher vocational schools in China has ushered in new opportunities and challenges. Chinese higher vocational schools should realize that our change and the development of digital science and technology will have a far-reaching impact on educational management. It helps to get rid of the prohibition of indium in the traditional school teaching mode, makes a comprehensive and objective analysis of the realistic development and needs of Chinese colleges and universities and the major problems, and actively explores and seeks a new way of information management. Furthermore, it solves the unavoidable "bottleneck" problem in information management, and establishes a scientific and reasonable management system to give full play to the role of information technology, so as to protect the sustainable development of higher vocational education.

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