# A Study of Teaching Management in the Age of Information

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**Abstract.** Informationization enables teaching management in higher education to become modern, scientific and efficient and face some challenges. Combined with the existing challenges, this paper proposes corresponding development strategies, such as strengthening the concept of informationization in teaching management, promoting extensive participation of staff, improving supporting systems of information teaching management and so on.

## Introduction

In the 21st century, in order to adapt to the rapid development of high education in China and gradual promotion of teaching reform of credit system, various colleges and universities introduce modern information technology such as computer and network communication to teaching management. They strive to explore the construction of information teaching management on the road of improving teaching management level and work efficiency.

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Teaching management of high education refers that colleges and universities adjust and control the entire teaching task based on certain goals and principles to ensure orderly and effective teaching and smooth achievement of the goal of cultivating morally, intellectually and physically development talents. Information teaching management refers to the process of making use of modern information technology computer, network communication and multimedia to achieve information teaching management based on advanced information technology and modern higher education and management concept to change traditional model of teaching management under the guidance of modern teaching concept and achieve teaching goals of higher education by implementing efficient plan, organization, command, coordination and control in the process of teaching. Information teaching management in higher education not only indicates the development and construction of relevant hardware and software platforms of teaching management information system in higher education but also contains the modern, scientific and efficient teaching management concept [1].

## Advantages of Teaching Management in the Age of Information

Optimize the allocation of resources

Traditional teaching management is a "plenty, detailed, complex, chaotic and repetitive" task with less accurate and shareable data and waste of human, material and financial resources and time. Collecting data by computer and network technology can save resources and reduce the waste. The relevant data are collected, published and updated through the campus network or other means by

the same department according to certain standard of data collection. The data are highly accurate and shareable. All the sectors can search relevant data and files through the Internet, which changes the way of utilizing resources, improves efficiency and reduces waste of human and material resources and time [2].

Promote fair and just teaching management service

The information flow of traditional teaching management is slow and closed, and only a few people know some important information. The teaching management service is less fair and just. In the age of information, all the public information is published online and everybody faces the same information. In this context, teaching management service can be really institutional and programmatic. All the prescribed services with qualifications and conditions will be treated equally. Teachers, students and outsiders can find their own service types and ways through the Internet.

Promote standard teaching management

In the age of information, teaching management of higher education can realize network centralized management. All the students can select the courses through the Internet. Besides, their learning situation will be recorded through the Internet so that relevant sectors can grasp relevant data timely. There are limits of the access to these data, and only the faculty that have permission can modify the data, which avoids random deletion of data and files that cannot be deleted, enhances the standardization of teaching management normative and guarantees the fair, just and reasonable implementation of management rules and regulations.

## Challenges of Teaching Management in the Information Age

Insufficient understanding of information teaching management

Information teaching management of higher education refers to the process of making full use of information technology and concepts, ways and means of modern education management to conduct teaching management in order to improve quality and efficiency of teaching management and realize modernization of teaching management. Nowadays, many Chinese colleges and universities understand the connotations of information teaching management in a simple and biased way. They only understand information teaching management technically and equate updating technical means of teaching management with information teaching management and ignore the important role of modern and scientific teaching management concept in construction of information teaching management. The front-line teaching management staff are lack of learning and understanding of information teaching management and insist the traditional ideas, theories and methods of management. They hinder the practical implementation of information teaching management and result in useless efforts in implementation in the late period [3].

Poor participation of faculty

The construction of information teaching management requires scientific planning, sufficient material foundation, advanced software and hardware platform and extensive participation of faculty. Many colleges and universities fail to conduct positive publicity of teaching management information system and make faculty less interested and motivated in the use of teaching management information system. As some faculty do not understand the convenience and significance of information teaching management, they are even against the use of information system of teaching management by believing the less trouble the better, resulting in less participation of faculty in the promotion process of information teaching management and affecting the extensive publicity of information teaching management [4].

Lack of relevant supporting systems

The lack of relevant supporting systems of information teaching management results in non-standard use of information system, destroys the effective teaching data and affects the operating effectiveness of teaching management information system. If there is no full consideration or development of scientific, unified and standard cording rule before the operation of information system, the data formats will become chaotic, different and obscure with less analysis and utilization after operation. If the teaching management system is lack of institutional standardization and limitation, the operation of system will become random, which damages the

authenticity and legality of operating data, violates the scientific, standard and real requirements of information construction and further affects the standard, orderly and continuous implementation of information teaching management.

## Development Countermeasures of Teaching Management in the Information Age

Strengthen the concept of information teaching management

Development and construction of information teaching management requires us to correctly understand the connotation of information teaching management and establish the modern and scientific information teaching management concept in the implementation process of information teaching management. Information of teaching management is the starting point of information teaching construction. Only by the correct understanding of the connotation of information teaching management can we establish information teaching management concept, ensure reasonable development of information teaching management and promote the improvement of school teaching level. In order to promote the construction of information teaching management, the colleges and universities must seize the rapid development of information technology, improve the connotation continuously through information means such as computer and network, innovate procedures and model of teaching management, organize the teaching task in a scientific, standard and efficient way and promote the efficient use of teaching resources.

Enhance publicity and promote extensive participation of faculty

Colleges and universities should adopt a variety of means to strengthen publicizing the important of information teaching management so that the faculty can fully understand the purpose of information teaching management and convenience brought by information teaching management system in work and study and guide staff to take the initiative to participate into the construction of information teaching management. As for the probation and recommendation of teaching management information system, we should collect the faculty's suggestions of information teaching management so that they can feel the attention and respect of school for their participation into the construction of information teaching management and become glad to participate into construction of information teaching management. After the official operation of the system, we need to listen to the feedback and opinions of faculty during operation and maintenance and improve the various functions of the system by timely maintenance and upgrading of the system [5].

Improve relevant supporting systems of information teaching management

Technically speaking, improving relevant supporting systems of information teaching management needs to develop standard coding rule of operating data, ensure the unification and standardization of data processing of teaching and avoid affecting data collection and analysis of operation in the late period due to chaotic and obscure data formats. In terms of management, we need to develop various supporting systems of teaching management, restrict and standardize the use of teaching management information, ensure the standard, transparent and fair operation of teaching management information and facilitate release and supervision of relevant service information through the development of rules of service items to promote the standard, orderly and continuous progressing of information teaching management.

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