

# Information Construction of Teaching Quality Management in Colleges and Universities

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**Abstract:** At present, the primary teaching task of the major universities is to build the internal information management system of the teaching and promote the improvement of the teaching quality. On the basis of this, this paper mainly analyzes the present situation of teaching quality management in the current university, and puts forward a concrete method for the establishment of the management platform of the teaching quality management of the university, hoping to help the universities to carry out the information construction of teaching quality management and improve the education level of our country, so as to promote social and economic development.

## 1. Introduction

After the establishment of the new China, the major colleges and universities have developed rapidly, and are now in the development stage of the standard and the improvement. The main task of our university is to improve the quality of the students, to cultivate the social talents and to promote the rapid development of the motherland. In order to achieve this goal, the major colleges and universities should pay attention to the teaching quality. With the arrival of the information age, the advanced teaching means should be introduced in time, and the establishment of the information-based education management platform should be carried out, so as to effectively improve the teaching level of the major universities in China and improve the overall education quality of the country.

## 2. Analysis on the Present Situation of Teaching Quality Management in Colleges and Universities

### 2.1 The Teaching Idea is Backward

At present, due to various reasons, there are still some deficiencies in the level of teaching management in colleges and universities in our country. First of all, according to the traditional concept, colleges and universities in our country mainly rely on some experienced experts to control the teaching quality. Because the expert is old, the thought may be conservative, the information obtained is not comprehensive and objective, resulting in the expert experience is not suitable for the characteristics of school development, and the education level can not be effectively improved. Secondly, individual leaders of colleges and universities mistakenly believe that information construction is the purchase of information equipment, and the establishment of several campus websites and an information office can realize the construction of teaching management informatization. Therefore, little attention is paid to the maintenance of software and hardware of information equipment, and it is impossible to ensure the safety, reliability and timeliness of information data, resulting in the low level of information-based teaching management [1].

### 2.2 Backward Management

At present, in the information age, many colleges and universities in our country still lag behind in teaching management, which is only limited to the traditional teaching method, and there is a

situation of imitating or even copying the outdated teaching management process. For the collection, collation and feedback of teaching information, the traditional outdated manual method is still used, resulting in low quality of teaching quality monitoring, limiting the improvement of its educational level, resulting in the cultivation of students who do not meet the social standards. At present, even if the information education management technology has been introduced, there is a big gap in the informatization degree of many departments within the school. The main aspects of the high information level are educational administration management, book management and personnel management. And financial management. For the school infrastructure, logistics services, community departments and scientific research, the degree of informatization is relatively low, not attached importance to, as well as the old thinking of the departments, unwilling to improve the working mode, the introduction of information management technology.

### **2.3 The Management System is Not Perfect.**

The teaching quality assurance system of the university belongs to a large system engineering, which involves many aspects of the student's education work, and after completing the data collection and analysis of the educational administration information, the university also ensures that the data of each link of the teaching can be effectively and smoothly integrated and shared, Give full play to the role of implementation, decision-making and feedback teaching mechanism. However, in the present case, there is not enough emphasis on the importance of business data sharing among the various departments of the university, and the lack of the department exchange results in the data re-entry and the data inconsistency. As a result of the lack of communication among the departments, the data share is low, resulting in an island of information. The school's teaching system is also the same The mutual independence, unable to form a complete teaching system organism, can not analyze the problems in the feedback teaching process in time, which greatly influences the smooth development of the teaching work, and is not conducive to the improvement of the teaching quality.

### **2.4 Lack of Investment**

Due to the development of the information technology, the teaching management equipment needs to be updated at any time, and the updating of the teaching equipment requires a great deal of expense. In order to reduce the input of the cost, many colleges and universities can make more profits, directly or indirectly reduce the input of the teaching funds, resulting in the insufficient funds of the teaching, the poor teaching equipment and the non-compliance with the present development, which is not conducive to the improvement of the school education level.

### **2.5 Lack of Professional and Technical Staff**

The information management talents of specialty in the information age are the key to the effective teaching information management in colleges and universities. Schools should actively introduce technical talents and strengthen the technical training of employees in order to promote the development of educational information management. However, in many colleges and universities in our country, they do not pay attention to the introduction of information technology talents, which leads to the lack of technical talents, which is not conducive to the development of schools.

## **3. Establishment of Quality Management Platform for Informatization Teaching in Colleges and Universities**

### **3.1 Ideas for Platform Construction**

In order to improve the information level of educational management in colleges and universities, it is necessary to establish a teaching quality management platform. When setting up the platform, technicians should do according to their ability, combine the design teaching situation, take the teaching data sharing, pay attention to the data analysis, guide the teaching, and the decision implementation as the foundation, carry on the information teaching management system which has

the function of data mining, supporting decision and teaching feedback. In the process of establishing the information teaching management platform, the technicians need to reorganize and analyze the activity data of each department, and form the data sharing center at the school level. In addition, all kinds of data should be carried out in combination with the evaluation index of teaching inside and outside the school. Mining and analysis, give the relevant index evaluation results. In order to effectively assist the school leaders to make the next decision direction.

The information management platform of the university is carried out mainly from the five aspects of data collection, analysis, evaluation, feedback and application. The technical personnel should organically combine these five important aspects to carry out the efficient teaching management, realize the talent training and promote the social development[2].

The main content of the information data collection part of the management platform is to analyze the meaning of the data structure by using a large amount of data generated by each department of the university, to clear the unreasonable data, to carry out unified data coding and then put the data into the data sharing center of the school, and then to periodically update the data, Ensure that the data meets the current management requirements to ensure data validity and timeliness. According to the data provided by the school data sharing center, the information processing server can generate the teaching quality analysis report according to the data provided by the school data sharing center, and the school leader can make effective decision according to the analysis report. For example, in order to measure the teacher's comprehensive teaching level, the university The technical personnel can analyze the situation of the teacher's class, the student evaluation and the student's achievement through data mining, and evaluate the teaching quality of the teacher accurately. In addition, through that examination and analysis of the final exam paper of the student through the data platform, the student's grasp of knowledge and the distribution of the student can be found, and the teaching of the teacher can be better guided, and the teaching level of the teacher can be effectively improved.

### **3.2 Technical Personnel Selection and Establishment of Rules and Regulations**

In order to ensure the professionalism of the information management platform in colleges and universities, before the construction of the platform, the school should first select the construction personnel, ensure that it meets the technical requirements, and then form an information construction team to plan, carry out, operate and implement the establishment of the information teaching management platform. Secondly, learning leaders should formulate complete rules and regulations and restrict the behavior of school personnel. It is also necessary to formulate short-term and long-term construction goals and expected results to promote the progress of school information construction.

### **3.3 Improve the Evaluation System of Teaching Quality**

Colleges and universities should ensure the quality of information teaching quality management platform. The relevant technical personnel of platform construction should comprehensively sort out and analyze the actual information construction needs of each link of the system, carry on the investigation deeply within the school, fully understand the actual situation of school teaching, optimize and perfect the business system of each department based on the needs of teachers, students and management departments, and ensure the truth and effectiveness of the information platform data. For the lack of funds, colleges and universities in the process of information teaching management platform construction, can not only carry out rectification and improvement of some important departments, resulting in the emergence of “digital divide”, the polarization of various departments is serious, which is not conducive to the growth of whole school. Therefore, in order to avoid this kind of situation, colleges and universities can take measures of “helping the poor and helping the weak “, gradually realize the construction of comprehensive education information management, promote the level of school education, and promote the development of all aspects of the school.

### **3.4 Construction of a Teaching Data Sharing Centre**

In order to establish the data sharing center of colleges and universities, the construction team should carry on the reasonable planning and collation of the existing data, collect and summarize the information of the whole school, clear the data with loopholes, classify the data of research significance, and finally place the data in the data sharing center to realize the data sharing of the teaching information of the whole school. With the continuous updating and development of science and technology, data processing technology has been relatively perfect. The information construction team in colleges and universities can use computers to combine public cloud and private cloud to carry out specific classification and processing of special information, which can effectively improve the security of data and avoid economic losses caused by data loss and leakage. For example The major colleges and universities can place all-school public data information on the public cloud. For sensitive data, it is suggested to be placed on the private cloud. The reasonable data placement can effectively realize the smooth communication of the internal resources of the school.

The effective establishment of data sharing center can improve the utilization rate of existing resources and eliminate the isolated islands of information that are not produced in time. At the same time, the establishment of public data sharing platform can facilitate the effective use of school resources by students and teachers.

### **3.5 Concretization of Teaching Topics**

In the establishment of information education management system in colleges and universities, in the face of a large number of teaching data, construction personnel can not carry out blind analysis, but should be analyzed according to the actual teaching situation and teaching objectives. In order to study specific things, it is necessary to extract the effective information which is beneficial to the construction of the platform in order to involve all aspects of its attributes. For example, when the constructors study the course construction, they need to carry on the scientific and meticulous analysis to the course name, the course credit, the teaching time, the course nature, the teaching material version, the teaching total time, the course opening department, the teaching environment, the teaching method, the final examination method, the student test paper analysis and the achievement evaluation and so on, so as to carry on the effective course system design. For example, when taking teachers as the research object, the construction personnel need to study the teacher's name, age, position, educational background, length of service and other personal information, and also need to carry on the comprehensive analysis to the teacher evaluation result, the teaching level, the scientific research situation and the paper patent award and so on, finally realizes the concrete teacher system establishment [3].

Therefore, before the construction of the information platform, it is necessary to determine the research theme, carry out scientific and purposeful data mining, realize the effective establishment of the information platform, promote the improvement of the educational level of colleges and universities, and cultivate more comprehensive talents for the society.

## **4. Conclusion**

In summary, in order to conform to the development of the times, colleges and universities in our country should pay attention to the improvement of students' teaching quality. The school can effectively improve the teaching quality by establishing the information teaching management platform, promote the improvement of the overall teaching level of our country, cultivate more social elites for our country, promote the healthy and rapid development of social economy, and ensure the international status of our country.

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