

# Construction and Thinking of Teaching Management System in Medical Colleges under the Background of High Quality and Conformal Development

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**Abstract:** With the gradual expansion of the enrollment scale of colleges and universities, the whole society has put forward higher requirements for the quality of colleges and universities. The deepening of the construction of “double first-class” also makes medical colleges enter the stage of high-quality connotative development, and the teaching management of medical colleges is facing a new situation. Based on the relevant documents issued by the Ministry of Education and the requirements of high quality and conformal development, this paper discusses the importance of the construction of teaching management system in medical colleges in the new era. Combined with advanced information technology such as big data, this paper discusses the ideas of teaching management system construction in medical colleges under the background of high quality and conformal development.

**Keywords:** Teaching management system; High quality connotative development; Medical college

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## Introduction:

With the expansion of higher education enrollment and the continuous improvement of the whole society’s requirements for the quality of talents training in higher education, high-quality and conformal development has become an important direction of the education reform of medical colleges. Medical colleges are required to take the “double first-class” as the guidance, create disciplinary characteristics, further integrate educational resources, and achieve high-quality and conformal development of education with excellent talent teams and scientific research capabilities. The construction level of teaching management system in medical colleges will greatly affect the quality of teaching management in medical colleges, and is closely related to the work pressure and enthusiasm of front-line teachers and other managers. Under the background of high quality and conformal development, it is particularly important to strengthen the construction of teaching management system in medical colleges, so this paper discusses it.

## 1. The importance of teaching management system construction in medical colleges in the new era

In the relevant documents issued by the Ministry of Education, it is emphasized that education informatization 2.0 should be promoted and the deep integration of information technology and teaching of various disciplines should be promoted, which is also a major strategic decision to accelerate the construction of a powerful education country. In this context, the integration of information technology into all aspects of education, teaching and management in colleges and universities is an important means to improve the quality of school talent training and promote education reform. Teaching management system is related to the teaching work of front-line teachers in medical colleges. Accelerating the construction of teaching management system in medical colleges can greatly promote the innovation of teaching business organization and process, improve management efficiency and decision-making level, and school administrators can also use teaching management system and other information technology means to improve the level of service to teachers and students. Compared with other colleges and universities, the teaching management of medical colleges is more difficult, mainly because there are more teachers teaching a single course, and the teaching buildings, laboratories and clinical probation places are scattered, and even in some cases, there will be shared places, and the student structure and professional distribution are complex. In the face of this situation, it is more necessary for medical colleges to strengthen the construction of

teaching management information system, use advanced information technology, strengthen teaching quality monitoring, optimize teaching management and service processes, constantly improve and solve problems in teaching management, improve teaching quality, and finally achieve high-quality and conformal development of schools <sup>[1]</sup>.

## **2. Ideas for the construction of teaching management system in medical colleges under the background of high-quality and conformal development**

### **2.1 Overall design of teaching management system**

The connotation of high quality is that under the background of development, the educational administration management system of medical colleges and universities mainly provides inquiry and other services for teachers, administrators and students, among which teachers are mainly responsible for daily assessment and the uploading of periodic examination results, the input and management of curriculum and student information. System administrators mainly use the teaching management system to collect and review the information of students and teachers, publish important information related to teaching management and other policies, and use the teaching management system to maintain curriculum information and data statistics. Students need to use the teaching management information system to check test scores or other personal information, and sometimes need to use the teaching management system to choose courses. Therefore, the connotation of high quality is that the construction of teaching management system in medical colleges under the background of development must fully consider the needs of different service subjects. The goal of system construction should be to combine advanced information technology, use front-end interaction and intelligent hardware to obtain data of teaching process, including the whole process management and support for teachers' teaching and students' learning. Moreover, it is necessary to promote the sharing of high-quality educational resources, and provide strong technical support for the teaching reform of various disciplines in medical colleges and universities and improve the quality of talent training.

Medical colleges should follow the following principles in the process of further improving the construction of teaching management system: First, the principle of target accuracy, that is, the connotation of high quality is that in the context of development, the design and construction of the school teaching management information system should clarify the relevant objectives and have accurate positioning for the design of all functional modules within the system. For example, the score management module is the core module of the teaching management system of medical colleges and universities, which is mainly to carry out statistical analysis and summary of the examination results of students at various stages. Teachers and students can print transcripts uniformly in this module, and students can check the test scores of each stage according to their account numbers and passwords <sup>[2]</sup>. The second is the principle of reliability, that is, the background of the teaching management system of medical colleges involved in the context of high-quality and conformal development should be easy for managers to maintain and improve the stability of system operation. Thirdly, the design of the teaching management system in medical colleges should adhere to the principle of consistency, that is, the functional layout design of the system page should be unified, so as to facilitate administrators, teachers and students to carry out corresponding work or obtain information by using the teaching management system.

In terms of architecture design, the connotation of high quality is the teaching management of medical colleges under the background of development. The system design should effectively serve teachers and students, and at the same time ensure information security. Therefore, the campus network can be used as a special plane to improve the existing teaching management system, and then business requests can be sent through the agent subsystem to ensure the correlation between the original business systems of the new business. In addition, the information query module in the teaching management system can be centrally established on the Internet to form a mobile query database for teachers and students to obtain important information in time <sup>[3]</sup>. In terms of software technology architecture, the school can consider the design of network Top structure and separate design, separate the database server from the total server of the application platform, and realize data transmission through the switch. All data can be entered into the server only after security certification, so as to ensure information security. It can also meet the needs of daily teaching management in medical colleges.

### **2.2 Improve the data sharing mechanism**

Under the background of high-quality and conformal development, the teaching management system of medical colleges should ensure the sharing of data related to teaching work between the administrative departments of the school, strengthen the cooperation between the administrative departments of medical colleges and universities, reduce the information asymmetry between the two sides, so as to improve the work efficiency of the administrative departments of the school and the effect of teaching management. Therefore, the academic affairs Office of medical colleges should strengthen the communication and cooperation with various administrative departments, unify the data format, round head and interface, and improve the system operation mechanism of each department. Only

in this way, all departments can obtain the required data in time through the school teaching management system, and the system can realize efficient human-computer interaction and massive data storage and analysis.

The key technologies for data sharing in the teaching management system of medical colleges and universities are big data development and database server construction, in which big data development can use the distributed system infrastructure of Hadoop to provide high throughput access to system data for the school teaching management system, and can store massive data. Moreover, the data in the distributed file system can be calculated and processed. The database architecture can use the MyBatis database, which supports a variety of information technologies and can apply a relatively simple architecture to configure native data<sup>[4]</sup>. The above key technologies can provide a big data sharing module for the teaching system of medical colleges and universities, and facilitate the administrative departments of medical colleges and universities to efficiently store, retrieve and share information in the system according to the needs of teaching management and other work. On this basis, in addition to internal data sharing, external data sharing modules can also be provided to meet the needs of teachers and students in teaching and learning. The contents of the modules include teachers' recommended course resources and columns of interest to students. The data list is arranged according to the date and content released by teachers and students, so as to meet the diversified learning needs of students. It is also convenient for teachers to use high-quality teaching resources to share and teaching reform, and improve the effect of curriculum teaching.

### 3. Conclusion

The construction of teaching management system in medical colleges under the background of high-quality and conformal development is a realistic need to improve the management efficiency and decision-making level. Administrators of medical colleges need to strengthen the planning of the overall design of teaching management system, and at the same time, give full play to the advantages of advanced information technology such as big data to further improve the data sharing mechanism of teaching management system. So that teachers and students can use high-quality education resources to improve the effect of education, management personnel can also improve management methods through timely and large amounts of data.

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