

# Thinking on the innovation of college students' management mode under the background of informatization

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**Abstract:** In recent years, the enrollment scale of colleges and universities in China has been expanding, which will inevitably require the continuous investment and use of a large number of new campuses. At the same time, the serious lack of management personnel and teaching resources has led to the relative lag in the management and development of college students. In addition, with the decline in the quality of students every year, the complexity and difficulty of student management in colleges and universities increase. The traditional student management mode and method can not meet the actual needs of colleges and universities at this stage. In the face of the new situation and new technology brought by big data, how to do college student management and how to vigorously promote the informatization construction of college student management have become the most challenging problems in student management. This paper analyzes the current problems of college students' information management, and then puts forward corresponding countermeasures, hoping to provide some reference for college front-line managers.

**Keywords:** college student management; promotion of information technology; Life oriented

## Introduction

In recent years, due to the expansion of enrollment, the enrollment scale of colleges and universities in China is constantly increasing, which requires a large number of new campuses to be put into use, which directly leads to a serious shortage of management personnel and teaching resources, so that the management and development of the college has lagged behind, leading to a bottleneck period for colleges and universities. The complexity and difficulty of student management in colleges and universities are increasing, and the quality of students is decreasing every year. The traditional student management mode and method can no longer meet the actual needs of colleges and universities at this stage. With the development of China's higher vocational education entering a new stage, in recent years, new changes have taken place in the college enrollment and enrollment system, school running mode and management system, and the student management function has also been further expanded, playing an increasingly important role in the daily operation of colleges and universities. The informationization of higher vocational students' management in China generally stays at the initial stage, and the corresponding system is not perfect, the informationization level is not high, and the people-oriented management mode is lacking.

## 1. Difficulties in College Student Management

### 1.1 Inadequate application of various types of information technology in colleges and universities

In recent years, due to the expansion of enrollment, the enrollment scale of colleges and universities in China is constantly increasing, which requires a large number of new campuses to be put into use, which directly leads to a serious shortage of management personnel and teaching resources, so that the management and development of the college has lagged behind, leading to a bottleneck period for colleges and universities. The complexity and difficulty of student management in colleges and universities are increasing, and the quality of students is decreasing every year. The traditional student management mode and method can no longer meet the actual needs of colleges and universities at this stage. In this context, a realistic problem for student management workers is how to better face the new situation and new technology brought by big data and how to vigorously promote the informatization construction of college student management. With the development of China's higher vocational education entering a new stage, in recent years, new changes have taken place in the college enrollment and enrollment system, school running mode and management system, and the student management function has also been further expanded, playing an increasingly important role in the daily operation of colleges and universities. The informationization of higher vocational students' management in China generally stays at the initial stage, and the corresponding system is not perfect, the informationization level is not high, and the people-oriented management mode is lacking.

### 1.2 Backward informatization management

From the current level of university informatization, most universities have basically reached the level of informatization, but there are still some universities that are still at a relatively early stage. Although some colleges and universities in China have built their own campus networks, most of them have not met the requirements, including outdated concepts, lack of necessary technical support, single functions of information systems, and can not meet the actual needs. At present, China has entered an information age. As the national cultural transmission base, colleges and universities shoulder the responsibility of showing the superiority of the socialist system with Chinese characteristics to the society. Therefore, strengthening the information management of colleges and universities is a very urgent task. For colleges and universities, they must fully recognize the opportunities and challenges brought by the arrival of the information age to the management of colleges and universities, and actively respond to them.

### 1.3 The comprehensive quality of college student administrators is low

As a talent training institution, colleges and universities pay attention to both ability and morality in talent selection, and emphasize

ability training. However, in the specific process of practice, many people ignored the impact of the comprehensive quality of college student management personnel on the development of various activities and the quality of student management. On the one hand, the comprehensive quality of student management personnel is directly related to the achievements of school education and teaching. On the other hand, the student management system itself is a complex system engineering, involving many disciplines. If you simply rely on human resources for management, it is not only inefficient but also prone to mistakes. Therefore, in order to fundamentally solve this problem, it is necessary to improve the comprehensive quality of college teaching management personnel and enhance their ability to deal with emergencies, so as to ensure the effectiveness and efficiency of teaching management.

#### 1.4 Inadequate student management information system in colleges and universities

If you want to carry out efficient student management, you need to establish perfect rules and regulations to ensure the effective implementation of the management system. However, in daily operation management, each department restricts each other and performs its own duties, which makes it difficult to achieve coordination. At the same time, due to the limited information exchange channels between various functional departments, it is also impossible to timely understand the learning situation of students. This leads to the low effectiveness of student management, and even the phenomenon of student management confusion. In addition, because the student management mode lags behind the development of modern information technology, many students find loopholes or defects in some aspects after using the system. Once these problems occur, they will greatly threaten the stability and security of the entire campus. How to realize the scientific and standardized student management mechanism At present, most domestic colleges and universities still adopt the traditional “closed” mode of management, that is, teachers are gathered and trained through administrative approval, examination organization and other forms, and then handed over to the head teacher for unified management. Although this management method can reduce the number of personnel and improve the efficiency, it can not play the role that managers should play.

## 2. Countermeasures for Information Management of College Students

### 2.1 Renew the concept of student management and establish a scientific concept of information management

Colleges and universities are an important part of China’s basic education system. With the deepening of higher education reform and the rapid development of social economy, college students have become the backbone of the country’s future construction. However, the current college student management system has not yet fully adapted to the requirements of modern talent training, especially the problems of difficult employment, more job choices and difficult entrepreneurship of some college graduates. Therefore, colleges and universities should change their ideas as soon as possible, actively promote quality education, strengthen the leadership of student work, establish and improve relevant systems and norms, comprehensively improve the management level, and promote the harmonious development of colleges and universities. Among them, the most important thing is to update the concept of student management, establish scientific information management, constantly strengthen students’ sense of autonomy, and cultivate good habits. Only in this way can the rights and interests of students be protected to the greatest extent, so that they can be relieved to engage in their favorite career, so as to achieve the goal of lifelong learning. In addition, we should also pay attention to training high-quality talents and providing high-quality services for schools. In order to fundamentally change this situation, we must start with education, take improving teaching quality as the main line, build a new teaching mechanism, comprehensively improve the quality of students, enhance students’ self-restraint ability, form correct values, and finally achieve the goal of students’ self-management and self-improvement.

### 2.2 Establish and improve the information management mechanism for college students

In the past, some difficulties and problems were often encountered in the process of student management in colleges and universities, such as inadequate funding sources, imperfect management systems and lack of effective supervision. Therefore, establishing a scientific and reasonable management system is of great significance to ensure the normal operation of the student management system. First, the importance of information management should be clarified. Secondly, we should have a practical and feasible system of rules and regulations. Finally, we should do a good job of publicity and guidance. As student management involves all aspects, it is necessary to formulate detailed and thorough plans to complete various tasks, and pay attention to timely feedback information to competent departments, teachers and other relevant departments. By constantly improving various rules and regulations and realizing standardized operation, it will help to further improve management efficiency and level and reduce management costs.

### 2.3 Optimize the teaching management process and create a “smart campus”

With the rapid development of modern information technology, traditional management methods can no longer meet the needs of the times. How to make good use of these advanced methods is particularly important. In this context, colleges and universities should speed up the pace of teaching reform, innovate management models, explore new methods, and further improve the existing management model as a basis to create a more efficient and convenient management platform. By optimizing the teaching management process, teachers and students can better adapt to the requirements of the information age. The specific operations are as follows: (1) Establish a unified and coordinated information management organization system. Colleges and universities should, in accordance with the spirit of the Notice of the Ministry of Education on the implementation of the pilot project of university library automation construction, establish a corresponding management organization to be responsible for the specific implementation of the project; each college shall set up independent institutions to undertake specific work according to their own conditions. The specific operation process is as follows: a. Each department shall set up a special computer related specialty or course team to be responsible for the design and development, commissioning and maintenance, training guidance and daily operation and maintenance of the whole system; b. All departments shall actively cooperate and work together to ensure

the information security of their own disciplines; c. Each department can independently develop database products or solutions suitable for different applications based on its own characteristics. d. All departments and departments should strengthen cooperation and exchange, and constantly enrich and improve the functions of the information system; e. Each department shall regularly check the information system and deal with problems found in a timely manner. Through the above measures, not only the management level can be improved, but also the teaching ability and scientific research innovation ability can be enhanced, so as to achieve the goal of upgrading the school level.

#### 2.4 Build a network platform for resource sharing and a digital education environment

In order to promote the all-round development of college students, colleges and universities should use information technology innovation management mode, take the Internet as the carrier, integrate campus resources, give play to network advantages, promote resource sharing, and form a networked, three-dimensional, intelligent digital campus. At present, there are many models based on campus network construction in Chinese universities, such as open education network, distance education network, etc. However, although these network facilities have a certain scale, due to the lack of effective supervision and the lack of necessary technical support, it is difficult for them to really play a role, to fully share educational resources, and to provide more services to students. Therefore, if we want to give full play to the value of network resources, we must transform these network facilities into a service platform with good user experience. At the same time, it is necessary to realize the computerization of information collection and storage process, so as to make it transition from relying solely on manpower to relying on computer technology. This requires colleges and universities to establish a scientific management system to ensure the smooth realization of this goal, and on this basis, gradually promote the interconnection of various platforms inside and outside the school, ultimately achieve more efficient student management, and better cultivate innovative talents.

#### 2.5 Increase investment in information equipment

The development of college student management needs not only the full support of information technology, but also the timely and updated technical support of advanced new technologies and new media. Therefore, schools should invest in information technology equipment in real time to provide support for the equipment and promote the development of campus informatization. The informatization of college student management is not only to increase the number of computers on the existing basis, nor to add multimedia equipment or management information systems and other software to improve the daily work efficiency of student managers, but also to fundamentally optimize the informatization of college student management. In the optimization entity, the input of multimedia equipment has strong interactivity and student participation, which is conducive to the formation of a new information cognitive structure for students. By increasing the amount of multimedia, we have realized the expansion of the general experimental teaching, improved the students' real scene reproduction and simulated learning needs, and cultivated and tapped the students' exploration and creative potential. The input of student management software and equipment, such as the enterprise WeChat leave approval function used during the epidemic, is convenient and fast, and can grasp the location and whereabouts of students at the first time. If the student information management in colleges and universities needs a major breakthrough, they must vigorously introduce management software similar to this. Only in this way, the student information management will continue to break through.

#### 2.6 Improve the comprehensive quality of student management personnel

As an important part of the teaching management organization system of colleges and universities, student management personnel can not be ignored. Whether they can adapt to the requirements of talent training methods under the new situation is one of the important signs to measure the level of management of a university. With the rapid development of information technology, more and more colleges and universities begin to attach importance to the research of information teaching means and methods. How to make full use of modern information network tools to optimize the design, reasonable adjustment, reasonable arrangement and rapid generation of course materials has become the focus of the current university teaching reform. To improve the comprehensive quality of student management personnel, the following ways can be adopted: □ strengthen the training of relevant personnel on professional basic knowledge and consolidate the level of professional knowledge; □ Carry out theoretical learning and practical activities in relevant disciplines; □ Expand the vision of relevant personnel and enrich the source of knowledge; □ Actively participate in social surveys to understand the latest developments; □ Strengthen cooperation and exchanges and enhance mutual trust. To improve the efficiency of student management, college management involves all aspects, including personnel allocation, fund budget, material procurement, equipment maintenance, etc. Each job has its corresponding post responsibilities, responsibilities and authorities, and assessment standards. Only when all work is implemented in place can the maximum efficiency be achieved. Therefore, improving the work efficiency of college student administrators is not only conducive to ensuring the quality of the entire campus education, but also can save a lot of money for the country and promote economic growth.

### 3. conclusion

Through the summary and analysis of the above contents, we can find that there are some problems in the current information management of college students, such as insufficient information equipment, insufficient information literacy of managers, etc., which seriously affect the effectiveness of management. In this context, a practical problem for student management workers is how to better face the new situation and new technology brought about by big data, promote the informatization construction of college student management, and promote the healthy growth of students.

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# Analysis on the training strategy of transportation equipment manufacturing professionals from the perspective of integration of production and education

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**Abstract:** High end equipment manufacturing is a major industry that affects the core competitiveness of the country. Industrial innovation, transformation and development put forward higher requirements for manufacturing talents. However, the current talent training standard is difficult to keep up with the pace of industrial development, and students lack practical ability. The integration of production and education has become a channel connecting the talent training of schools and the talent demand of enterprises, providing ideas and directions for the sustainable development of schools and enterprises. In this context, the school should closely contact with local enterprises, closely follow the needs of industrial development, pay attention to the requirements of front-line posts, optimize the education environment, build an education platform integrating industry and education, and cultivate multiple types of talents in production management and technology research and development, which can not only solve the problem of insufficient practical ability of students, but also output excellent talents meeting the talent selection criteria to enterprises. This paper analyzes the connotation of the integration of industry and education in the new era, expounds the necessity of implementing the integration of industry and education in higher vocational colleges, introduces the premise of promoting the integration of industry and education in schools and enterprises, and explores the training strategy of transportation equipment manufacturing professionals.

**Keywords:** integration of production and education; Transportation equipment manufacturing; personnel training

The integration of industry and education is an important mode to coordinate education supply and industrial demand, which has a profound impact on the school's building of a high-quality education system and the sustainable development of enterprises. From the perspective of education supply, the embryonic form of the integration of industry and education is school enterprise cooperation, which was initially the responsibility of vocational education and local enterprises entrusted by the state. It requires schools and enterprises to work together to combine vocational education, social training and technical services by sharing educational resources and technical service resources, and output talents matching social needs. From the perspective of education demand, the integration of industry and education is not only an objective demand for enterprises to connect with school education services, but also a personal demand for talents to take a good career development path. Therefore, by promoting the integration of industry and education, the school can not only refer to the enterprise talent selection standard, introduce front-line resources, improve the practicality of theoretical teaching and practical teaching, but also combine the learning development of students, introduce corporate culture and management content, connect teaching content with work tasks, and achieve the connection and integration of education chain, industry chain and talent chain.

## 1. The connotation of the integration of industry and education in the new era

In order to further improve the social service ability of vocational education, the state strongly advocates vocational colleges to explore the talent training mode of integration of learning, production and education. On the surface, "production" not only represents enterprises, but also refers to production activities related to economic development; "Teaching" not only refers to schools, but also refers to education related departments. The integration of production and education requires relevant enterprises and various colleges to integrate their respective advantages on the basis of ensuring independence, break the traditional concept of school enterprise cooperation, and enable enterprises to establish a sense of responsibility for actively cultivating talents. Different from the power and responsibility distribution

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