

Research on the Positive Impact of Information Technology on Student Education in Higher Vocational Colleges in the Era of Big Data

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Abstract: Under the background of big data, scientific application of big data technology can effectively improve the informatization construction level of education and teaching management in higher vocational colleges. This paper takes the informatization of higher vocational education and teaching management as the research object, analyzes the advantages of applying big data technology to higher vocational education and teaching management, and proposes specific ways to accelerate the improvement of the informatization level of higher vocational education and teaching management. Give full play to the guarantee role of education management and cultivate students' professional quality. Therefore, through the value analysis of educational management reform in higher vocational colleges, the article clarifies the new requirements of educational management reform in higher vocational colleges, and discusses the new strategies of educational management reform in higher vocational colleges.

Keywords: positive impact; student education; higher vocational colleges; big data

1. INTRODUCTION

With the rapid development of Internet education platforms and mobile devices, the modern education system has gradually entered the era of online and offline hybrid teaching, with great changes in curriculum teaching objectives, teaching forms and teaching models. At present, through the actual investigation of ideological and political course teaching in higher vocational colleges, it is found that the ideological and political course teacher team has generally adopted multimedia information technology, online education platform and financial and creative tools to carry out ideological and political teaching activities, greatly improving the effectiveness of ideological and political course teaching and students' learning initiative.

The reason why it is called big data is that it has the characteristics of massive data, diverse forms and fast processing, and it is precisely these characteristics that enable big data technology to screen and process the required data in a timely manner in the massive data, and analyze the information correlation between the massive data, mining the value behind the data, and giving full play to the social value that big data can play. In the context of the information age, It often requires a certain amount of storage space to retain data from different sources and different coding formats. In people's daily production and life, massive data information will be generated, especially for large-scale production and processing of enterprises, and the growth rate of data information is particularly significant.

Big data also has a profound impact on university education management. The big data management mode abandons the traditional education mode, achieves the information management of education and teaching, and promotes academic exchanges, knowledge sharing and cultural dissemination in different regions. Online distance learning provides a wide range of learning platforms for all students, and realizes a new teaching and learning mode of free choice

of learning content anytime and anywhere, which truly reflects the essence of learning. Open learning without time and space is the mainstream teaching environment in the era of big data, which can change the situation of boring learning and passive learning in the traditional classroom. In the era of big data, the Internet has become an important tool in education and teaching practice. Because of the highly interactive characteristics of the Internet, teachers and students can break through the limitations of external factors such as time and space, and carry out real-time communication and interaction, then form a good teacher-student relationship.

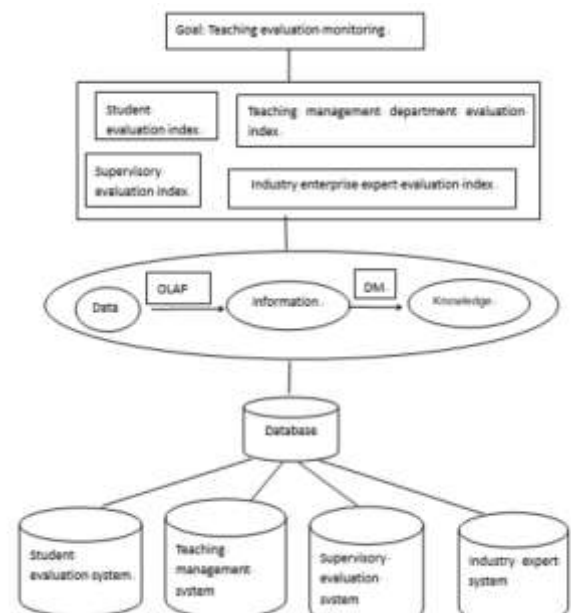


Figure. 1 Digital teaching evaluation monitoring mode (from the Internet).

2. THE PROPOSED METHODOLOGY

2.1 Advantages of applying big data technology to education and teaching management in higher vocational colleges

In the process of communication, students are found to have problems in learning, and targeted suggestions and help are given to them, so as to promote the better implementation of various educational management measures. As a book dedicated to studying the impact of information technology on ideological and political education in higher vocational colleges, this book combines the development trend of modern big data technology, and based on the development status of ideological and political course teaching in modern higher vocational colleges and the problems existing in teaching practice, carries out in-depth discussion and analysis from teaching concepts, teaching methods, team construction, system training and tool introduction, and achieves the combination of theory and practice, It has high reference value and significance.

The introduction of ideological and political education mode under the background of big data and information thinking shows that in the era of Internet information, college students' ideological and political content is more abundant. Using big data technology, students can often break through the limitations of sample size when conducting surveys, and more convenient to obtain complex data. The era of big data has brought innovation in the work of ideological and political education in colleges and universities, and teachers can better realize the teaching of students with the help of big data technology. With the diversification and complexity of the social environment, the importance of ideological and political education in higher education is further highlighted. In the context of the rapid popularization of the Internet and the increasing improvement of computer information technology, more and more students are disturbed by network ideas.

The ideas of money worship, hedonism and self-interest in the Internet are not firm in political positions. Higher education has its own development laws, and the development of higher vocational education is affected by many factors. The arrival of the era of big data will have a huge impact on the education system of higher vocational colleges. In the era of big data, the "smart" campus information system will record all traces of online behavior left on the campus resource sharing platform in detail, that is, the mouse click data of each user of the sharing platform. The working concept of education management directly affects the education management model and the final effectiveness of education management.

2.2 The impact of big data on information education in higher vocational colleges

In the era of big data, the first step for higher vocational colleges to carry out education management reform is to achieve an all-round update of the teaching management concept, break through the traditional teaching management thinking in the past, and attach importance to the "Internet plus" thinking as the guiding thinking of teaching management, so as to effectively promote teaching management to adapt to the new requirements in the era of big data in terms of working ability, information management level and information security guarantee.

First of all, we should continue to deepen the teaching system of ideological and political education in colleges and

universities under the guidance of the idea of big data. For example, when selecting the classroom content and teaching cases, the practicability of teaching can be judged based on the data such as the scale of the current application of the teaching courseware; Utilize big data technology to realize the sharing of curriculum education, so that students can choose their interested learning direction according to their personal preferences. As an important part of the education system, higher vocational colleges are an important place to deliver high-quality skilled talents to the society.

There is a close relationship between higher vocational colleges and social departments, including social employers, talent market and educational administrative structure. It is a high-level thinking quality. In the teaching process, teachers' professional and technical ability occupies an important position. In addition, data analysis ability is also a very important skill that teachers need to master.

Big data is actually a double-edged sword. While providing convenience for the industry and work, there are also some security risks. Schools need to strengthen the construction of security systems, pay attention to data security management and control, to reduce the risk coefficient. In the process of information education development in higher vocational colleges, information data will show geometric growth, which requires higher vocational colleges to set up data analysis courses, guide teachers to conduct in-depth analysis of students' relevant data, analyze data content with teaching value in the huge data group, and apply the analysis results to teaching activities.

Including education management work, so as to better simulate and optimize the education management plan and better carry out the education management practice. In this regard, higher vocational colleges and cooperative enterprises should develop and design special education management software based on their actual education management needs, and use this software to complete the digitalization and data processing of education management information, effectively promoting the integration of education management and big data technology.

3. CONCLUSION

The development of informatization of education and teaching management in higher vocational colleges has become an important means to improve the teaching quality of higher vocational education and promote the progress of the education and teaching industry. In the future education and teaching management work, it is also necessary to base on its own actual development, take effective means to constantly promote the informatization management work, and realize the construction of the team, hardware and software of education management work by embedding the "Internet plus" development thinking, So as to effectively promote the reform of education management in higher vocational colleges in the era of big data and effectively enhance the effectiveness of education management.

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