

“Internet+” Military Vocational Education: Logical connotation and Implementation path

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Abstract. “Internet+”, is diffusing into and changing the field of education. It also provides realistic conditions and unprecedented opportunities for the reform and innovation of military vocational education. This paper discusses the implementation logic and development path of “Internet + ” military vocational education from the perspectives of reshaping educational concepts, perfecting educational laws and regulations, innovating schooling models. The purposes of this paper are to inform the theoretical research and the practices in military vocational education, and to promote the development of military vocational education.

1. Introduction

With the progress of science and technology and the development of society, the era of “Internet +” emerged from the deep coupling of modern information technology, such as the Internet, cloud computing, big data and social economy, has arrived. In January 2017, the State Council promulgated the “13th Five-Year plan” for the development of national education, clearly stated that we should actively develop “Internet + education” and fully promote the deep integration of information technology with education and teaching, and reform and innovation drive the development of education.[1] In August of the same year, the Central Military Commission issued the Military Vocational Education Reform Implementation Plan, which clearly pointed out that military vocational education should widely use the concept of “education + network” and make full use of information technology to carry out modern learning, which can promote the development of military academies' education and military training practice.[2]

In recent years, our military vocational education has taken solid steps and achieved remarkable results. The top-level design of military vocational education has been preliminarily completed, and the service platform of “Dream Class” of military vocational education has been running. However, it should be clearly seen that our military vocational education has just entered the transitional stage from preliminary stage to deep development, and there are still many problems. From a practical point of view, the most critical and fundamental problem is the vague understanding of the logical connotations between “Internet +” and military vocational education, and the problem of lagging behind the concept of military vocational education derived from it and the unclear realization path. This is exactly the problem of this paper.

2. Interpretation of "Internet +"

To clarify the logical connotation of "Internet +" military vocational education, we must have a certain understanding of "Internet +".

Premier Li Keqiang first put forward the "Internet +" action plan in the government work report of the third session of the Twelfth National People's Congress in 2015. In July of the same year, the State Council issued the guidance of the State Council on actively promoting the "Internet +" action, and made clear the 11 key action plans of "Internet +" entrepreneurship and innovation, collaborative manufacturing, and so on. "Internet +" has already risen to the national strategy, and is considered to be a new driving force for China's economic and social development. [3] Nowadays, "Internet +" is accelerating the integration and communication with all walks of life, promoting the optimization, reconstruction and innovation of existing formats, and constantly giving birth to new formats. A new "Internet +" ecosystem has gradually formed and penetrated into all levels of social economy.

There are mainly two kinds of understanding of "Internet +". The first is from the understanding of policy makers. As the State Council's Guiding Opinions on actively promoting the "Internet + action" clearly pointed out, "Internet +" represents a new economic form, that is, giving full play to the role of the Internet in optimizing and integrating production elements, and integrating the innovative achievements of the Internet into all sectors of the economy and society. Enhance the innovation and productivity of the real economy, and form a broader new form of economic development based on Internet infrastructure and tools. The second understanding comes from the perception of Internet companies. Among them, Tencent's definition of "Internet +" is based on the platform of the Internet, utilizing the cross border integration of information and communication technology and various industries, promoting industrial transformation and upgrading, and constantly creating new products, new businesses and new models, and building a new ecosystem connecting everything. [4] Alibaba believes that "Internet +" is the "Internet based integration of information technology (including mobile Internet, cloud computing, big data technology)" in various sectors of the economic and social life of the diffusion process. [5]

3. Logical connotation of "Internet +" military Vocational Education

"Internet +" also has a significant impact on education, and even will lead to a new round of educational revolution. The impact of "Internet +" on education is that the paradigm of education will gradually change from the industrial age to the information age.

3.1 Connotation of "Internet +" Education

Scholars have their own opinions on the connotation of "Internet +" education. Many scholars believe that "Internet +" education is more "education + Internet", which means that education is the main body, and the Internet is more of a tool. [6] Some scholars believe that "Internet +" education is online education. Some scholars believe that "Internet + education" is intelligent education, which is the advanced stage and the future direction of the development of educational informatization. [7]

3.2 Connotation of "Internet +" military Vocational Education

Scholars have also studied the "Internet +" military vocational education, and some scholars believe that the "Internet +" era has brought great opportunities to the development of our military vocational education. Military vocational education should rely on Internet technology to build a "full-time, full-time" network teaching platform, and explore new teaching models without interruption, so as to provide personalized, diversified and flexible life-long learning for the officers and men. Some scholars believe that "Internet +" military vocational education is to inject the Internet gene into military vocational education through information network technology, and to carry out the whole process of reform, including personnel training and training objectives, personnel training process and personnel training evaluation, so as to realize the ecological military education supported by the Internet. [8]

In fact, no matter how to understand "Internet +", the "+" is not an addition, but a very rich connotation of "logic". For the "Internet +" military vocational education, we should actually understand this: first, we should regard the "Internet +" military vocational education as a new paradigm for the development of military education under the new normal. It answers the question of how to "penetrate into the military vocational education" and the development needs of the army in the context of this era. Secondly, we should integrate the thought of "Internet +" into the whole process of military vocational education teaching actively or passively. It answers the concept of talent cultivation and how to achieve "interaction and integration" in educational and teaching activities. Finally, the essence of "Internet +" lies in the concept of personnel training, the way of learning and the innovation of teaching mode. It answers the question of how to achieve "three dimensional synergy" between teaching and learning, between military academies, between colleges and military units.

4. The realization path of "Internet +" military Vocational Education

"Internet +" speeds up the reform in the field of education, and provides realistic conditions and unprecedented opportunities for the development and innovation of military vocational education. However, under the current development environment, there are still many challenges to realize the "Internet +" military vocational education. There are not enough internal and external motivation mechanisms for the military vocational education at the macro level, but there are micro level platform construction, inadequate policy laws and regulations, and training mode.

In order to respond to the problems of how to break through the above realistic development, this paper puts forward the reform ideas of "reshaping education concept is the foundation, improving laws and regulations is the guarantee, improving infrastructure is the support, and innovating teaching mode is the core", as shown in Figure 1.

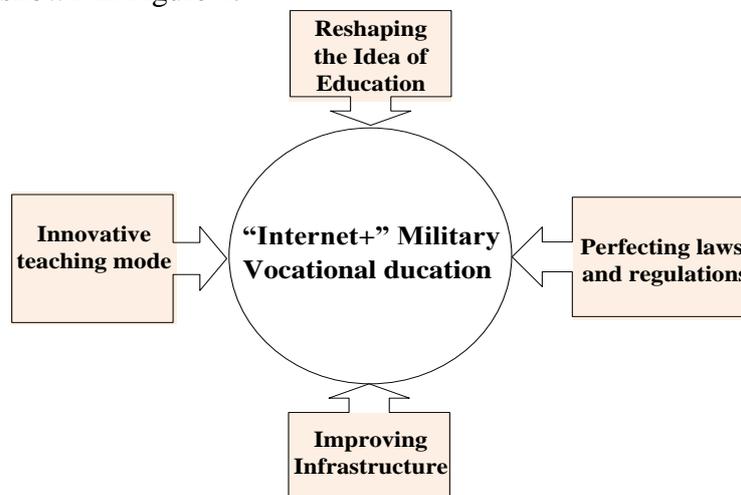


Fig. 1. the realization path of "Internet +" military Vocational Education

4.1 Reconstructing educational concept and strengthening the cognition of "Internet +" military Vocational Education

We should deeply grasp the following points to promote the transformation and reform of military vocational education. Firstly, we should firmly establish Chairman Xi's guiding ideology of strengthening the army and deeply understand the strategic significance of military vocational education in the new era. Military vocational education is the expansion and supplement of military academy education and military training practice, and it supports the new military personnel training system together. It is an important component of forming the comprehensive advantages of the new military personnel training system of 1+1+1>3. [9] Secondly, we should accurately grasp the practical requirements of military vocational education in the new era. Faced with the new era background, new functions and missions, new army formation and new weapons and equipment, the learning

needs of all officers and soldiers are more diverse. We must accurately grasp the characteristics and rules of military vocational education in the new era and enhance the epochal of work implementation. Third, we should scientifically grasp the development direction of military vocational education in the Internet era. "Internet +" will bring profound changes to the whole process of military vocational education, and will reinvent an innovative military education ecosystem.

4.2 Improving laws and regulations and building the basic guarantee of "Internet +" military Vocational Education

The rapid development of "Internet +" brings about many problems in the field of military vocational education, which requires the support of a package of relevant policies and systems, so as to ensure the innovation and development of military vocational education. This involves the establishment and improvement of military vocational education laws and regulations system, teaching dynamic mechanism, learning motivation mechanism, credit bank system and so on. Therefore, first, the administrative departments of military vocational education should establish, guide and promote the healthy development of military vocational education laws, standards, systems and mechanisms. Secondly, we should support military academies and local academies, scientific research institutes and military equipment contractors to establish extensive cooperative relations, and promote the integration of military vocational education into the overall layout of building a strong educational country and the national strategic layout of military-civilian integration. Third, we should improve the management system of military vocational education, which combines overall management, teaching management and learning management, and deal with the internal and external relations. Fourthly, we should make overall plans for the integrated design of military vocational education and selection and appointment system, promote the experience of military vocational education into the career development path of officers and soldiers, strengthen the rigidity of military vocational education, and fundamentally solve the problem of consistency in training and management.

4.3 Improving infrastructure and optimizing the development support of "Internet +" military Vocational Education

The military vocational education infrastructure of our army mainly includes military comprehensive network and Internet service platform. Although the level of education informationization has been greatly improved in recent years, its comprehensive level is still relatively low, and the environmental support ability of military vocational education is relatively weak. Firstly, with the implementation of the "broadband China" strategy, we will increase investment in the construction of military integrated network and Internet service platforms, as well as in the research and development of large data systems, and build an efficient software and hardware environment support system for military vocational education. Secondly, we should establish management platforms such as "Credit Bank Certification", "Military Vocational Qualification Certification" and "Military Vocational Skills Grade Certification" to standardize the management of learning outcomes in military vocational education. Finally, we should promote the security of military vocational education data.

4.4 Innovating teaching mode, focusing on the core of "Internet +" military vocational education reform

Under the new situation of "Internet +", we should fully realize that "Internet +" is not only a strong competitor of current military vocational education activities, but also an innovator and subversion of teaching mode and learning mode. It will fundamentally push forward the comprehensive reform of military vocational education. First, we should focus on the urgent needs of the army, what is most needed for emergency response, what is most needed for officers and soldiers at present, what military vocational education should build, what to teach and what to guide everyone to learn. Second, learning means should be diversified, closely related to the actual situation of the army, online learning, off-line learning in mobile and scattered state, extensive reading and learning to meet the diverse learning needs of officers and soldiers. Thirdly, the way of learning should be fully integrated,

and military vocational education should be carried out in combination with combat readiness training, political education, daily management and major tasks, so as to promote the training of the army according to the program and promote the overall construction of the army. Fourthly, we should strengthen intelligence analysis of learning needs, precise push of learning resources, precise record of learning behavior and scientific evaluation of learning effectiveness to provide more convenience and possibility for officers and soldiers, so that they can freely choose and enjoy high-quality education services.

5. Summary

By analyzing the definition, operation mode and characteristics of military vocational education, it is easy to see that the idea of "Internet +" is very suitable for our military vocational education needs. We believe that "Internet +" in military vocational education exists as a development paradigm, far beyond the application level of information technology. Based on this, we must follow the logic and development direction of "Internet +" military vocational education, and gradually solve the plight of concept recognition, regulation system, infrastructure and teaching mode, and actively carry out the theoretical exploration and practical attempt of "Internet +" military vocational education.

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