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Focus on The Integration of Military and Civilian to Promote the In-depth Development of Information Teaching

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Abstract: At present, civil-military integration provides a historic opportunity for creating world-class military colleges and universities. With the help of the "fast track" of civil-military integration, vigorously promoting the reform of information teaching mode of colleges and universities is a necessary guarantee for cultivating first-class equipment maintenance and support talents. Information-based teaching model is a new teaching model which conforms to modern teaching requirements and is the inevitable requirement of education and teaching reform. In this paper, what is information-based teaching and what are the main ways of information-based teaching mode under the condition of civil-military integration; Under the condition of high development of science and technology, how to use new teaching methods to promote the in-depth development of information teaching in colleges and universities.

Keywords: Civil-military integration; Information technology; Teaching; Development.

1. Introduction

Civil-military integration means that the modernization of national defense and the armed forces should be deeply integrated into the system of economic and social development, that the civil-military integration in various fields such as economy, science and technology, education and human resources should be fully promoted, and that the modernization of national defense and the armed forces should be integrated with economic and social development at a wider, higher and deeper level. It will provide abundant resources and sustainable momentum for the modernization of national defense and the armed forces. As the only non-commissioned officer school in the PLA training personnel for the maintenance and support of the army's armored equipment, we should focus on the requirement of "training soldiers in the same way as fighting wars", focus on civil-military integration technologies in education, science and technology and other fields, and further promote the development of the teaching mode of the service colleges to the deep-water area of information technology.

2. It is necessary to accurately grasp the connotation and characteristics of information-based teaching mode, and lay a solid theoretical foundation for teaching information-based institutions.

2.1. The meaning of information-based teaching model

The information-based teaching mode refers to the dynamic process of connecting all kinds of teaching units together, which is formed by the stable structure and procedure of teaching activities formed by the application of information technology under the guidance of modern teaching ideas and theories [1].

Under the condition of making full use of modern educational technology and information technology and other means, the information-based teaching mode builds a good interactive teaching platform between teachers and students, and tries to use information resources and teaching media to carry out corresponding teaching activities. Under the organization and guidance of teachers, it is convenient for students to give full play to their initiative, enthusiasm and creativity. Enable students to truly apply information technology to acquire knowledge, to achieve good teaching and learning results.

The teaching under the condition of information technology not only inherits the traditional teaching, but also explores and constructs the teaching mode under the condition of information technology, which is the "integration" process between the contents of various teaching modes and information technology [2].

2.2. Notable features of information-based teaching mode

Information-based teaching model can not only meet the needs of teachers' teaching, but also meet the needs of students' learning, and information-based teaching model has irreplaceable advantages in supporting students' learning. With the addition of computer and network technology in the information teaching mode, the main role of teachers is not only to provide information, but also to teach students how to use information technology to acquire knowledge and methods, mobilize students' learning initiative, consciousness, and arouse interest in learning. Therefore, the information-based teaching mode is a new teaching mode which conforms to the modern teaching thought and has many remarkable characteristics.

2.2.1. Interactive and mutual assistance to form a collaborative learning atmosphere.

In the teaching process, the characteristics of information networking are made full use of to make the communication between students and faculty, students and students more convenient and active, which helps students to grasp and understand deeper issues, enhance cognitive ability, and

promote good interpersonal relations [3].

2.2.2. Independent learning to cultivate students' innovative spirit and information processing ability.

Through the characteristics of information technology, information-based teaching mode stimulates students' innovative spirit, improves students' information processing ability by using methods such as information acquisition, information analysis and information processing, gradually cultivates students' basic skills of "learning" and "learning", and forms divergent and creative thinking ability.

2.2.3. Personalized teaching, convenient for teachers to teach in accordance with their aptitude.

In teaching, teachers can make use of the interaction of computer network to give instruction for students of different levels. Students can choose the difficulty and progress of learning content independently through multimedia technology, so that students can gradually change from the traditional teaching mode to the information teaching mode.

2.2.4. Large amount of information, conducive to the creation of ideal teaching environment.

Teaching environment creation can use modern educational technology means to bring information sources for classroom teaching, so that teaching becomes rich and colorful, teachers and textbooks are no longer the only information sources, the use of a variety of media can not only expand the amount of knowledge, but also fully mobilize the students' various senses, to provide students with a good learning situation.

3. Focus on the basic types of information-based teaching model, and constantly integrate it into the teaching process of the institution.

3.1. The information-based teaching model based on "teaching".

This kind of teaching mode is mainly through the way of teaching and individual guidance. This teaching mode can make use of the help provided by the information network to carry out "two-way" teaching, so as to improve the students' learning initiative and enhance the students' self-thinking and self-solving ability. At the same time, the teacher can give individual guidance according to their aptitude for different situations to achieve one-to-one teaching between the teacher and the student.

3.2. Information-based teaching mode based on "learning".

This teaching model focuses on learning through student-student collaboration and faculty-led discussion. It can not only encourage students to learn independently and cooperate with each other, but also ensure that students' discussion and speech can meet the requirements of teaching objectives.

3.3. Content-based information-based teaching mode.

This teaching mode mainly focuses on stimulating students to study autonomously and discursive-style around the teaching content. Teachers arrange teaching content or set teaching situation, students through the Internet computer, on the Internet to learn self-study course content, can carry out online discussion and answer questions, teaching network counseling, can also be a group as a unit, discussion and research.

3.4. Information-based teaching mode based on "educational media".

The mode dominated by "educational media" is a teaching mode formed according to the storage, processing, retrieval and presentation of information provided by a certain type or media. In this teaching mode, modern educational media are used to store and transmit teaching information, present problem situations, retrieve, analyze and process information resources, and be used as tools for analyzing and solving problems, as well as tools for cooperative learning and exchanging ideas.

4. Lose to the integration of military and civilian teaching means of new technology, vigorously expand the new teaching methods of colleges and universities.

Teaching classroom design should take learning as the center, take "task-driven" and "problem-solving" as the main line of teaching, make full use of modern information technology and information resources, arrange each link in the teaching process scientifically, provide good information learning conditions for students, and complete the teaching task.

4.1. Information network teaching method

In the information age, the network has changed the way of people's life and gradually penetrated into the teaching level. Network teaching method is a kind of teaching method relying on computer network, with a variety of graphics, video, sound, animation and text and other information functions, not only can stimulate students' senses, active classroom atmosphere, attract students' attention, but also can stimulate students' interest in learning. Taking foreign language teaching as an example, the specific implementation steps of network teaching are as follows:

4.1.1. Group before class.

Teachers can assign learning tasks in advance through network communication tools, and students can search for relevant questions after receiving them. After receiving them, students can exchange and discuss in Dingding class, Rain class and campus Internet to enhance students' ability of screening information and oral communication.

4.1.2. In class, LAN is used to strengthen students' reading, analysis and summary ability, so as to continuously improve their reading level.

Teachers teach in real time through the network, and constantly guide students to pay attention to the characters and ideas in the article, can summarize, understand the general idea of the article, master its structure.

4.1.3. Write online after class to improve your interest in writing.

In this process, teachers should make full use of BBS, message boards, E-mail, chat rooms, blogs and other network services, using students' interest in the network, stimulate their enthusiasm for writing.

4.2. SECI model teaching method

The SECI model is Socialization, Extremization,

Combination, and Internalization; Its core is to externalize the knowledge that exists in the individual's mind and is difficult to express in a specific situation, so as to transform old knowledge into new knowledge and achieve the purpose of innovation. SECI model teaching method mainly includes the following processes:

4.2.1. Knowledge socialization - observation and imitation.

Through virtual teacher, video conference system, video recording system, three-dimensional space technology and other information technology to complete.

4.2.2. Knowledge externalization - Communication.

The corresponding information technology support of this teaching link includes: MSN, E-mail, electronic slide, visualization, QQ group, BBS, NetMeeting, online case review, blog-based education narrative, chat room, Blog group, virtual network learning community, network teaching and research platform, etc.

4.2.3. Knowledge combination-carding summary.

Corresponding information technology support includes: word processing software, multimedia creation tools, website development tools, electronic teaching archives, computer-based collaborative technology, data mining, workflow management software, Quit collaborative creation document software, etc.

4.2.4. Sublimation of knowledge - Research practice.

Supported information technologies include expert systems, online guides, FAQs, computer-based collaboration tools, and virtual classrooms.

4.3. Practice information teaching method

Practical information-based teaching method is the scientific integration of information technology and practical teaching. It integrates information technology into practical teaching process effectively, creates a new teaching environment, and realizes a teaching method characterized by "autonomy, inquiry and cooperation", which not only plays the leading role of teachers, but also fully reflects the principal position of students. This teaching method puts more emphasis on the ability of self-acquisition of knowledge and comprehensive analysis of problems as well as the transformation of knowledge and ability into high quality. Taking civil engineering as an example, practical information-based teaching method can be composed of basic knowledge module, skill training module and comprehensive training module, so as to facilitate the organic combination of theory and practice.

At present, the information-based teaching model is emerging in an endless stream. As a teacher in the information age, we should not only apply the information-based teaching model, but also start from the subject system, the relationship between teachers and students, the characteristics of course materials, and innovate the information-based teaching model with the help of information technology resources. Only in this way can we achieve better teaching effects and realize effective information-based teaching.

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