

The Charm of Information-based Teaching in Higher Vocational Ideological and Political Teaching



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Abstract

Education informatization 2.0 action plan is the inevitable choice to adapt to the development of education under the intelligent environment. Education informatization 2.0 action Plan is a concrete implementation plan to promote "Internet plus education". The rapid development of artificial intelligence, big data, blockchain and other technologies will profoundly change the demand for talent and the form of education. With the rapid development of new media, new technology and the popularization, the use of new media and new technologies in education teaching has been widely used in many school, this is how to transform traditional education ideas, can effectively solve the traditional political education class in higher vocational colleges face deep trouble, promote the teaching mode, teaching system, teaching content and teaching method of education "Internet + education", It is the inevitable choice of ideological and political course teaching reform in higher vocational colleges. Based on the information technology teaching in higher vocational education courses in the connotation of the charm, form of charm and connotation of the spirit, from the Angle of the top design of the Ministry of Education, school reform and cultivating talents of the new era of the new perspective and the perspective of teachers' own development has carried on the detailed analysis, it is concluded that the higher vocational education courses must be combined with information technology means, The purpose is to promote the informatization process of ideological and political teaching in higher vocational colleges, so as to improve the quality and level of ideological and political teaching. In today's environment of the development of modern education technology, with the rapid development of new media technology, assisted by computer auxiliary teaching tool and increasingly extensive application in the teaching of teaching media and mature, combined with the teaching methods of all kinds of new media is the best way to improve the teaching efficiency, for the promotion of basic education reform and development, It is of great significance to comprehensively improve the quality and efficiency of education and teaching.

Keywords: *Informatization 2.0; New media technology; Higher vocational colleges; Ideological and political teaching; Charm look*

1 INTRODUCTION

With the continuous development of information 2.0 and new media technology, "Internet +" continues to enter the campus and the classroom, promoting the in-depth integration of information technology and education and teaching, realizing the all-round innovation of educational ideas, concepts, methods and means, and improving students' information technology literacy has also become an important task in the current stage. This means that in the traditional teaching of ideological and political courses in higher vocational colleges, teachers as the main body lead to the situation that students do not like to listen or learn, teachers do not like to speak or teach the classroom is facing profound change and collapse. The practical impact brought by information means is inevitable.

2 RELEVANT THEORETICAL BASIS

2.1 Education informatization 2.0

The 19th CPC National Congress made an important judgment that socialism with Chinese characteristics has entered a new era, marking a new journey to accelerate the modernization of education and build China into an education country. Education informatization 2.0 action plan is the internal demand of realizing new leap on the basis of historical achievements. Education informatization 2.0 action plan is the inevitable choice to adapt to the development of education under the intelligent environment. Education informatization 2.0 action Plan is a concrete implementation plan to promote "Internet plus education". The rapid development of artificial intelligence, big data, blockchain and other technologies will profoundly change the demand for talent and the form of education. Intelligent environment has not only changed the way of teaching and learning,

but also begun to deeply affect the concept, culture and ecology of education. China has released the Development Plan for the Next Generation of ARTIFICIAL Intelligence, which emphasizes the development of intelligent education and proactively responds to new opportunities and challenges brought by the wave of new technologies.

2.2 *New media and technology*

The use of new media and new technology in teaching can improve the display power and interaction of teaching media, and greatly enrich the way of presenting teaching content. After careful preparation, teachers use advanced means to create rigorous and rich electronic courseware, its purpose is to apply it to teaching, so as to optimize classroom teaching. In such teaching, teachers do not have to carry a globe, triangular board, and other tedious teaching AIDS as before,

But with the help of computer, projector, electronic whiteboard and other advanced computer multimedia tools to show the electronic courseware combining picture, text, sound and image to students, give full play to the function of multimedia network, can optimize the classroom teaching information transmission structure, students' understanding structure, classroom time structure, teacher-student activity structure and so on. The flexible use of rich and vivid multimedia courseware can greatly stimulate students' interest and arouse their desire to explore. New media, new technology all-round stimulation, so that the brain left and right coordinated development, enhance memory, learning efficiency significantly improved. Make the learning atmosphere relaxed and happy. Through the scientific application of multimedia network, classroom teaching can be optimized comprehensively, and classroom efficiency and teaching quality can be improved.

2.3 *Wisdom education*

On the basis of emerging technologies such as artificial intelligence, big data and the Internet of Things, and relying on various smart devices and networks, we will actively carry out innovative research and demonstration of smart education, and promote the mode transformation and ecological restructuring of education supported by new technologies. Construct intelligent learning support environment. Strengthen the theoretical research and top-level design of intelligent learning, promote the development and practical application of technology, and improve the quality of talent training. Vigorously promote intelligence education, to carry out intelligent learner centered teaching support environment construction, promote the artificial intelligence in teaching, management, the whole process of application, using smart technology to accelerate the personnel training mode, teaching method reform, explore in

ubiquitous, flexible, and the new education teaching environment construction and application of intelligent model. It is necessary to fully understand the cultivation of information literacy for the realization of the goal of moral education and the cultivation of innovative talents' knowledge, skills, application ability, information awareness and information ethics, and bring the information literacy of students into the comprehensive quality evaluation of students.

3 THE CHARM OF CONNOTATION: INFORMATION AND IDEOLOGICAL AND POLITICAL TEACHING COMBINED OVERVIEW

Foreign scholars define information literacy as "the technology and skills that people use in solving problems".^[1] This formulation has been widely recognized and used at home and abroad. Chinese scholars believe that information literacy is people's accomplishment and ability in obtaining, utilizing and developing information in the information society.^[2] On the basis of information literacy, information technology literacy adds technical meaning and is one of the comprehensive abilities that ideological and political teachers in higher vocational colleges must possess.

In 2012, the Ten-year Development Plan for Educational Information (2011-2020) issued by the Ministry of Education clearly pointed out the importance and future development direction of educational Information. In 2016, the 13th Five-Year Plan for Education Information issued by the Ministry of Education emphasized the organic integration of modern information technology and vocational education, and focused on the reform of traditional teaching methods. In 2018, the "Education Information 2.0 Action Plan" issued by the Ministry of Education emphasized that the Information of education should be regarded as the driving force of education reform, the development of education modernization, the reconstruction of education system and the transformation of teachers' roles.^[3] From the perspective of top-level design, the country has put forward a clear direction for educational Information. The informational teaching of ideological and political courses in higher vocational colleges is an inevitable requirement for the comprehensive implement of the Party's educational policy. In particular, the sudden emergence of COVID-19 in 2020 accelerated the Information process of ideological and political courses, and almost all colleges and universities opened a new mode of online teaching overnight. Ideological and political teachers, regardless of age and gender, have improved their information level to varying degrees during and in the post-epidemic era. Online courses have proliferated, with uneven quality as well as quantity. However, there is no denying that ideological and political courses began to "live", from content to form,

from way to means, with varying degrees of technology enabled color.

A search on CNKI with the theme of "Information teaching of Ideological and political courses" shows that there are 137 journal papers, 3 academic papers and 2 domestic conference papers during 2020-2021 alone. Scholars' attention to this problem is a little visible. Some scholars have analyzed the learning situation of "post-00s" students and believe that ideological and political courses must be repositioned based on the acceptance characteristics of "post-00s" students. This prediction proved to be forward-looking.

4 THE FORM OF CHARM: INFORMATION TEACHING IN HIGHER VOCATIONAL IDEOLOGICAL AND POLITICAL TEACHING OF THE STATE DISPLAY

In order to effectively implement the information teaching, ideological and political teachers must comprehensively improve their information technology level. Although the improvement of information literacy is a dynamic and changeable process, ideological and political teachers are still basic in acquiring, using and developing information. It is inevitable to apply information technology to teaching effectively and make ideological and political courses appear diversified in form.

4.1 *Open a new era of blended teaching mode*

There are many unavoidable disadvantages in traditional ideological and political teaching. Calling the roll before class is something most teachers do repeatedly, but it is a waste of time for large classes and it is inevitable to fail to answer the call. Most of the classroom teaching is dominated by teachers, teachers are teachers, students are recipients, students are more passive. The audience of class questioning is small, the participation of students is low, and the student activities that can be carried out are very limited. A lot of boring theoretical explanation greatly reduces the vividness and interest of class, and the acceptance and participation of students. As time goes by, students' recognition of ideological and political courses is very low, and it is impossible to achieve the educational goal of ideological and political courses. This runs counter to the educational concept of "teaching students according to their aptitude, integrating knowledge with practice, integrated development, and joint contribution and sharing" mentioned in "China's Education Modernization 2035". However, the emergence and application of information teaching such as the hybrid teaching mode combining online and offline has undoubtedly promoted the modernization process of ideological and political teaching in higher vocational colleges.

4.1.1 *An effective teaching and learning relationship has been formed before, during and after class*

The complete teaching process of ideological and political course includes teachers' teaching before, during and after class, as well as students' learning before, during and after class. There is both a vertical teaching and learning relationship and a horizontal teaching and learning relationship between them.

a) *Teachers before, during and after class*

Ideological and political teachers should analyze their teaching objectives and learning situation before class. The talent training scheme reflects the overall requirements of talent training, curriculum standard is a guiding document for teaching, the syllabus is subject outline, the content of the teachers to the teaching file familiar to heart, from the Angle of the top-level design, clear goals and concrete teaching goal, accomplish the teaching difficult point in teaching design, teaching target can be review can be measured, Can objectively analyze students' knowledge basis and cognitive ability, learning characteristics, professional characteristics and class style of study, to teach the class and students to have both the overall understanding and individual grasp, can accurately predict the difficulties of teaching and students to master the possibility. Platform construction is an essential part before class. Select country admits the high-quality goods declaration platform online courses, the course before the class must be at least half of the basic resources uploaded to the platform, such as the syllabus, course standard, teaching plans, PPT, base, putted forward, library, teaching video, images, and other resources, such as classified according to the module to upload, so that students in fragmentation. After the course is built, send the class invitation code to the WeChat group for students to scan the code to enter the class, or import the student list into the system to realize the online classification of natural classes.

Ideological and political teacher teaching content must effectively support the realization of teaching objectives. To contact time development and the social life, can fully reflect the state, the party mood, emotion and school, effective in spirit, work spirit and the spirit of labor model, well thought of and at the same time should pay attention to the cultivation of students' vocational ability and innovation consciousness, highlight the process of evaluation content examination, the acquisition of the students' learning behavior by information means, according to their aptitude. Teachers should not only have face-to-face teaching in the classroom with students, but also use certain information means to assist teaching in the field teaching, that is, the effective embedding of online resources.

Ideological and political teachers should also do a good job of students after class guidance and consolidation, review. Online design exercises, discussion, PPT, video and other forms of homework consolidation, recommend good articles good new media to students, to expand their knowledge and discipline cultivation. It is better to interact with students online and answer questions at any time.

Taking the Pai-ya platform + Learning channel as an example, the specific implementation path of information-based teaching for ideological and political teachers in higher vocational colleges can be shown in the figure below.

b) Students before, during and after class

Students should prepare well before class, master the basic information such as concept and meaning of the online content assigned by the teacher in advance, and solve the problem of "what is". After internalization, students can combine existing knowledge with teachers and other students to discuss in-depth content and solve the "why" problem in actual class. Through discussion, summary and teacher's inspiration, point, solve the "how to do" problem. This cannot only mobilize students' learning enthusiasm and thinking ability, but also reduce the unnecessary waste of time in traditional classroom. After class through online homework or offline field trips to consolidate knowledge, flexible and diverse forms, in line with the learning characteristics of modern college students. The specific information-based learning process is shown in the figure above.

4.1.2 Improved the learning depth of ideological and political courses for most students

Students should prepare well before class, master the basic information such as concept and meaning of the online content assigned by the teacher in advance, and solve the problem of "what is". After internalization, students can combine existing knowledge with teachers and other students to discuss in-depth content and solve the "why" problem in actual class. Through discussion, summary and teacher's inspiration, point, solve the "how to do" problem. This cannot only mobilize students' learning enthusiasm and thinking ability, but also reduce the unnecessary waste of time in traditional classroom. After class through online homework or offline field trips to consolidate knowledge, flexible and diverse forms, in line with the learning characteristics of modern college students. The specific information-based learning process is shown in the figure above.

4.2 The visual effect effectively activated the classroom

The visual effect formed by online teaching constitutes the beauty of the data of the course. Through the data, students can see their own learning effect and others' learning effect, which virtually forms a benign incentive mechanism combining self-discipline and heterism. Make abstract knowledge concrete, complex knowledge simple, inflexible knowledge flexible, convenient for students to understand and master. [4]

With the screen casting function, students can see the dynamics of themselves and others on the big screen in all links, including check-in, topic discussion, voting, scoring, questionnaire and classroom tests. The data distribution of the number of students and scores is clear at a glance, and they can devote themselves to the atmosphere of smart class. At the same time, students can also see other people's opinions in writing. Showing their opinions in front of the whole class will undoubtedly improve students' learning enthusiasm.

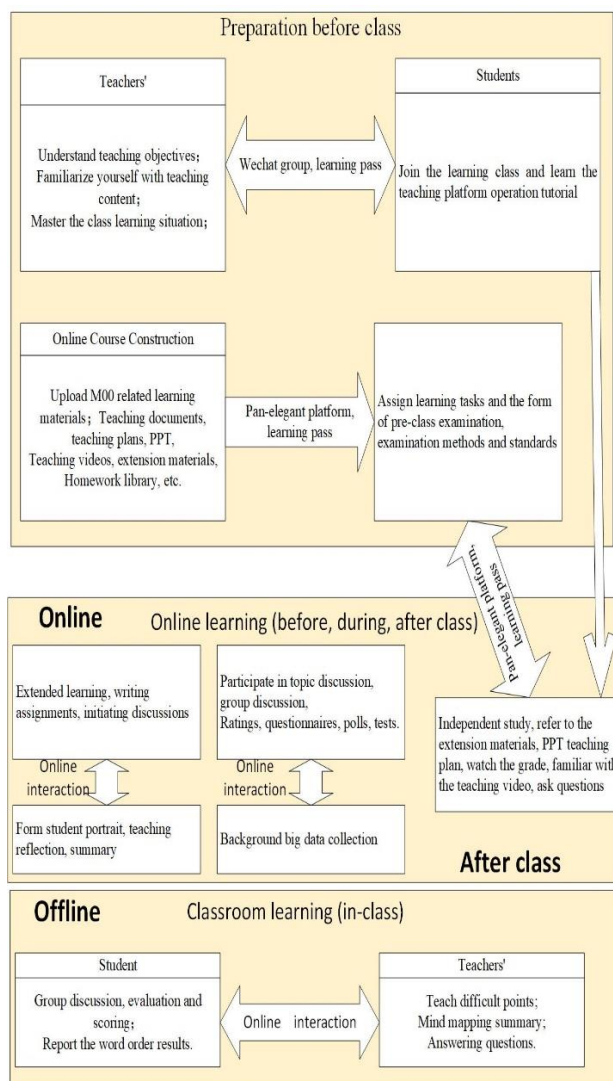


Fig. 1 Pattern chart of mixed Teaching of Ideological and political course in higher vocational Colleges

Therefore, divergent thinking and classroom extension, so that students become the subject of the classroom, can be regarded as an effective means of flipped classroom, so that the traditional classroom transfer - passive acceptance into active acceptance - active divergence.

The powerful process learning data collection of the teaching platform can form student portraits and provide a real and reliable process basis for the formation of final grades. The teacher can see each student's attendance by big data and the study situation, for students in each class of every link can do accurate grasp, given the wisdom of experience teaching process, improve the efficiency of the classroom management, provides support for precision through data-driven teaching, big background data acquisition has realized a complete coverage of the online teaching process, Broaden the way of interaction between teachers and students, thus making teaching more interesting, more attractive, and greatly helpful to students' learning.^[5] Attendance and head - up rates have also been greatly improved.

Through a questionnaire survey of 1500 students in higher vocational colleges, the author found that 98.5% of the students highly approved of the visualization effect of ideological and political course information teaching. On the contrary, some students gave feedback that if only using information means, such as only operating on mobile phones without screen projection, it would be mistaken for not using information teaching, and the visual effect without large screen would seriously affect the visual effect and learning experience. Thus, the carrier function of information technology is very important.

5 THE CHARM OF MEANING: THE SIGNIFICANCE OF INFORMATION TEACHING IN HIGHER VOCATIONAL IDEOLOGICAL AND POLITICAL TEACHING

In the Implementation Plan for Accelerating The Modernization of Education (2018-2022), it is proposed to vigorously promote educational Information and make full use of information technology to carry out the reform of talent training mode and teaching methods.^[6] With the rapid development of information technology, a large number of new information-based teaching modes such as "Internet + education" have emerged, providing new methods and means for ideological and political teaching in higher vocational colleges, as well as new possibilities for forming new ideas in ideological and political teaching in higher vocational colleges.

5.1 Conform to the technical attributes of ideological and political teaching in the information society

In the information society, the technical attribute of education is the basic premise of the integration of education and technology.^[7] As one of the technical means, information-based teaching not only extends the space-time category of ideological and political teaching, but also fully stimulates the enthusiasm and initiative of students in learning. The construction of ubiquitous information-based teaching environment enables the teaching of ideological and political courses in higher vocational colleges to achieve "Network everywhere, knowledge as shadow, learning anytime and anywhere".^[8] State, break the limitations of the existing education teaching, the teaching resources after the refactoring, students can make full use of the whole block or fragmentation time for online learning courses of rich media resources, greatly improve the students' autonomous learning time ratio, also greatly improve the students on the efficiency of teaching resources acquisition and learning.

Facts have proved that technology empowerment has played an irreplaceable role in higher vocational ideological and political teaching, showing the superiority of intelligent classroom. But it should be noted that higher vocational ideological and political teaching cannot completely rely on information teaching, cannot leave the technical means cannot mobilize the classroom cannot successfully complete the teaching task, not because of excessive reliance on information technology and perturb the classroom, with video instead of explanation, with a variety of materials stacking visual effects, Focusing solely on output but ignoring the cultivation of students' rigorous logical thinking and inquiring learning habits violates the purpose of technology application which is to maximize the initiative of teachers and students in educational activities.^[9]

5.2 Effectively promoted the ideological and political course teaching reform process

The "22 Articles" of the Ministry of Education put forward clear requirements for comprehensively improving the quality of course construction, which brings profound inspiration to the construction of ideological and political courses in higher vocational colleges. It is also an urgent task for higher vocational colleges to make ideological and political courses into demonstrative golden courses with "gender degree" by means of information technology.

5.2.1 *Promoted the reform of online high-quality course resources*

The high quality online resource sharing of ideological and political course is the deep integration of information technology and education and teaching promoted by higher vocational colleges

Effective means, Ideological and political teachers should take the initiative to seek change, actively participate in the construction of high-quality online courses, and realize the co-construction and sharing of online resources including course introduction, teaching syllabus, teaching calendar, teaching plans or presentations, guidance on key and difficult points, homework, teaching videos, extension materials and other teaching resources. Actively explore the compilation of loose-leaf electronic teaching materials and the establishment of online case database and question database to provide rich auxiliary resources for realizing the diversity of teaching links and the interaction of teaching process. Especially in the compilation process of school-based loose-leaf textbooks, attention should be paid to the transition from textbook system to teaching system, so as to build a bridge between learning and practice, and truly realize the educational function of textbooks.

There are relatively few academic activities such as lectures by outside experts in higher vocational colleges, and there are many kinds of reference materials and materials to be identified on the Internet. Therefore, it is more precious and rare to establish authoritative online resources such as academic conferences, lectures and reports, which are indispensable for expanding teaching resources of ideological and political courses.

5.2.2 *Promoted the self-revolution of ideological and political teachers*

Ideological and political teachers play an important role in the reform of ideological and political teaching, and their Information ability is one of the important conditions for the completion of high-level ideological and political teaching. Therefore, the education of teachers in higher vocational colleges must walk from the stagnant water without rings in the traditional classroom, in the era of "Internet +" keep initiating change is innovation, constantly updated iterative own teaching concept, including not only theoretical effective use of online resources, how to use teaching platform combining dominant education and recessive education effectively, At the operational level, it also includes how to highlight the technical attributes of ideological and political class, form a meeting point between knowledge transmission and scientific and technological innovation, and how to use the information teaching to give full play to the in-depth thinking of ideological and political class moral education, so as to ensure the quality and quantity of

ideological and political class teaching. Only then can the classroom be reshaped with technology. At the same time, we should pay attention to the efficiency of work and teaching. The online platform frees ideological and political teachers from the homework correction and final examination of objective questions, and the platform automatically corrects the answers once and for all, which is the most intuitive embodiment of improving ideological and political teachers' work efficiency. In addition, the teaching effect in the unit time can be intuitively shown through the big data collection of the teaching platform, which is also an embodiment of effective teaching quantification, which is helpful for teachers' teaching reflection and diagnosis reform after class.

All kinds of information teaching ability competition is an important means to improve the information ability of ideological and political teachers, through the competition to enhance the level of personal information, to achieve the goal of promoting education through competition. Enhance business ability by attending business training of various educational technology companies, Can also through online or offline to prize in the contest of Information teacher's experience, and experience more communication platform using the Information teaching experience, in contact with multi-type information fusion characteristics in teaching concept, the form suitable for school to affection, love, affection education courses of the Information teaching method, so as to promote teachers' information technology teaching ability of ascension.

6 CONCLUSION

In short, information-based teaching is one of the important contents of higher vocational ideological and political teaching reform, and plays an extremely important role in higher vocational ideological and political teaching. The network teaching of ideological and political theory in our school under the epidemic situation is teacher-led, student-centered, and gives full play to the autonomy and enthusiasm of students in learning. It highlights the ideological, theoretical, affinity and pertinence of ideological and political theory courses, attaches great importance to the effective connection between information technology and public basic courses at the school level and the teacher level, finds the "point" and "surface" of effective integration between the two, so as to improve the "gold content" of ideological and political courses in higher vocational colleges.

Under the new teaching form, the college constantly explores more effective online teaching methods and strives to improve the quality of online teaching. Constantly stimulate new thinking in work, according to the requirements of online teaching work of the school, implement the implementation of detailed work, fully excavate excellent typical cases in the application of

teachers' information technology, constantly explore and innovate management level, and achieve new results in work. The school selects three dimensions of "teaching, learning and supervision" and from three perspectives of "teachers, students and parents" to explore the shining point of online teaching process and carry out teaching style exhibition activities. From the process of online flipped teaching design, we can see that students are enthusiastic and energetic in learning, actively participate in online classroom interaction, and the majority of students can finish the extracurricular homework assigned by teachers on time. Relying on the construction of provincial high-quality online open courses, the university will lead and drive the construction of university-level high-quality online open courses, comprehensively deepen the reform of course teaching, promote the deep integration of information technology and education and teaching, and improve the quality of education and teaching and talent cultivation.

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REFERENCES

- [1] Li chao. Research on teachers' information technology literacy in distance open education [J]. Journal of Guangxi radio & TV university, 2019,30(06):34-36.
- [2] Peng Yaxiong. Journal of Huanggang Vocational and Technical College, 2021, 23(06), 40-43.
- [3] Zhou Jinrong. Research on the Improvement of Information Teaching Ability of Higher Vocational Teachers in the Era of Wisdom Education [J]. Education and Career, 2021, (03), 63-69.
- [4] Peng Yaxiong. Journal of Huanggang Vocational and Technical College, 2021, 23(06),40-43.
- [5] Sun Guangjun, Li Hongjing. Reform and Practice of information-based Teaching Mode based on wechat Rain Classroom Interaction System [J]. Journal of Higher Education, 2017(35),124-128.
- [6] General Offices of the CPC Central Committee and The State Council. Implementation Plan for Accelerating The Modernization of Education (2018-2022) [Z]. 2019.
- [7] Tang Huimin. On the integration innovation of information technology and undergraduate course teaching [J]. Journal of Xinyang Agriculture and Forestry College, 2021,31(04).
- [8] Wang Songtao. Research on Overall Architecture Design of Smart Campus [J]. Information Communication, 2018(08): 158-160.
- [9] Tang Huimin. On the integration innovation of information technology and undergraduate course teaching [J]. Journal of Xinyang Agriculture and Forestry College, 2019.10(04).

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