



Pedagogical Reforms in History and Culture Education Based on Digital Media Technologies

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ABSTRACT

History and culture education is an important educational program to inherit historical and cultural knowledge and cultivate students' sense of national responsibility. Under the background of information technology development, the teaching mode of history and culture has been impacted, therefore, it is necessary to carry out the teaching reform of history and culture education based on digital media technology. That is to say, combined with the limitations and challenges of traditional history and culture education, the importance of teaching reform is clarified, the opportunities brought by digital media technology for history and culture education are analyzed, and the teaching reform strategy of history and culture education based on digital media technology is elaborated in five aspects, namely, digital teaching resource base, teaching methods and methods, teachers' digital literacy, evaluation and feedback mechanism, and online and offline teaching resource integration. It contributes to the development trend of the digital era and improves the teaching quality of history and culture education.

Keywords: Digital media; History; Culture; Education; Pedagogical reform

INTRODUCTION

History and culture education is a broad educational field, aiming at passing on historical and cultural knowledge, cultivating students' sense of national identity, pride, sense of crisis, sense of mission and sense of responsibility [1-3], and improving students' comprehensive cultural literacy. Historical and cultural education mainly uses historical and cultural heritage as teaching materials and carries out related educational activities to help students understand the laws and trends of historical development and establish a correct view of history and nationhood. In the information-rich environment, it is necessary to cultivate young people with critical thinking and innovative consciousness. Reform of history education and teaching can deepen the content of teaching [4-6] and help students to sift, analyze, and evaluate historical facts from the vast amount of information. With the development of the society, China's demand for the comprehensive quality of talents is getting higher and higher, therefore, in order to improve the students' historical thinking, independent thinking, and problem-solving ability, and to adapt to the diversified needs of the society, it is necessary to carry out research on the reform of history and culture education and teaching.

Digital media technology is a new type of technology that converts media information such as sound, image, text, etc. digitally to complete analysis and application. There are many core fields of digital media technology applications, among which multimedia technology includes audio, video, graphics, images, animation and other media forms. Digital image processing technology involves image digitization, enhancement, restoration, segmentation, recognition, etc. Digital audio processing technology records, edits, synthesizes and processes audio signals. Digital video processing technology compresses, transmits and produces special effects [7-10] for video signals. Virtual reality and augmented reality technology Computer technology to create and experience the virtual world and integrate virtual information into the real world. Digital media technology is widely used in many fields, including but not limited to: communication field, to achieve more efficient and stable data transmission, such as digital telephone, digital television, etc. Entertainment industry, production, transmission and broadcast of movies, TV, games,

music and other contents. In the field of education, the production of digital teaching resources, the development of online courses, and the implementation of distance education ^[11-13]. Advertising design, production, release and effect evaluation of digital advertising. Manufacturing, digital modeling, simulation, virtual assembly of product design, etc. In the context of the development of digital media technology, the threshold of information dissemination has dropped significantly, and the previous historical and cultural education model has also been impacted. In order to improve the quality of historical and cultural teaching, this paper expounds effective teaching reform strategies of historical and cultural education based on digital media technology.

1 LIMITATIONS AND CHALLENGES OF TRADITIONAL HISTORY AND CULTURE EDUCATION

Traditional history and culture education mainly consists of history education, literature education and moral education, and the mode of education is relatively fixed, and its basic features are shown in Table 1 below.

Table 1 Characteristics of traditional history and culture education

Feature categories	Specific description
Educational objectives	Inheriting and promoting excellent historical and cultural traditions, cultivating students' cultural confidence and historical awareness, and improving their moral qualities and sense of social responsibility
Educational content	History education: historical events, figures, etc; Literary education: ancient literary works, poems, songs, and essays, etc; Moral education: Confucian classics, moral concepts, etc; Political education: national concepts, legal awareness, etc; Art education: music, dance, drama, etc
Educational methods	Classroom teaching: Combining different disciplines and adopting diverse teaching methods; Campus cultural activities: cultural lectures, cultural performances, traditional festival activities, etc; Social practice: visiting historical sites, museums, etc
Educational forms	Knowledge transmission: systematically explain historical and cultural knowledge; Interactive experience: allowing students to experience it firsthand through role-playing, on-site inspections, and other methods; Emotional resonance: guiding students to feel the emotional connotations of traditional culture
Educational effectiveness	Students deepen their understanding and identification with traditional culture; Enhancing cultural self-confidence and historical awareness among students; Improving the moral character and social responsibility of students; The critical thinking ability of students has been improved
matters needing attention	Emphasize the accuracy and authority of educational content; Respect individual differences and learning interests of students; Encourage students to actively learn and innovate their thinking; Combining with the reality of modern society, making traditional cultural education of practical significance

As can be seen from table 1, the main features of history and culture education, including educational objectives, contents, methods, forms, effects and precautions, etc., each of which has its own unique description and explanation, based on which it is possible to analyze the limitations and challenges of traditional history and culture education.

Limitations of traditional history and culture education: On the one hand, there are content limitations: traditional history and culture education tends to focus on the description of historical events, the sorting out of timelines and the introduction of historical figures, often resulting in monotonous content that lacks depth and breadth. Students often can only memorize some isolated historical events and figures ^[14-17], but are unable to form a complete historical and spatial-temporal view. Lack of diversified perspectives, traditional history and culture education is influenced by national ideology, the interpretation of historical events and figures is relatively single, lack of diversified perspectives. On the other hand, there is the limitation of teaching methods: traditional history and culture education usually adopts the way of lecturing and memorizing, ignoring the students' subjectivity and personalized needs, which easily leads to the lack of motivation of students and affects the learning effect.

Challenges to traditional history and culture education: With the rapid development, traditional history and culture education often fails to keep up with the pace of the times ^[18-20], resulting in a disconnection with modern society, and students tend to pay more attention to real life and future development, and lack of interest in traditional history and culture and a sense of identity. In the era of information explosion, students' access to information has become more diversified, and traditional history and culture education is faced with the challenge of information screening and integration. How to effectively utilize digital media technology to screen and integrate historical and cultural information has become one of the important tasks in teaching reform.

2 THE IMPORTANCE OF REFORMING THE TEACHING OF HISTORY AND CULTURE EDUCATION

The reform of history and culture education and teaching involves more elements and is more difficult to reform, and its main needs are covered as shown in Figure 1 below.

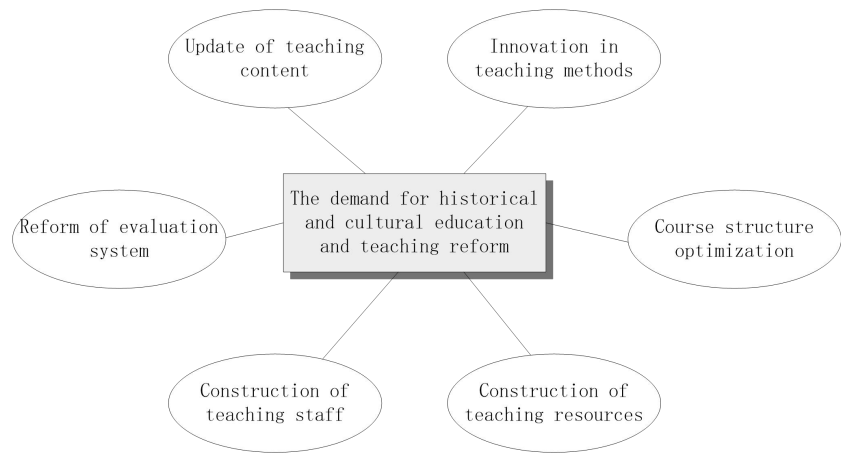


Figure 1 The need for pedagogical reforms in history and culture education

As can be seen from Fig. 1, the demand for educational and teaching reform includes updating of teaching content, innovation of teaching methods, reform of evaluation system, construction of teaching staff, construction of teaching resources, optimization of curriculum structure, based on which the importance of educational reform in history and culture can be analyzed as follows.

First, to adapt to the needs of the times, with the rapid development of digital media technology, the field of education has ushered in the wave of digitalization and informatization. As an important part of education, history and culture education must follow the pace of the times, make full use of digital media technology through teaching reform, and improve the quality and efficiency of teaching. Under the background of globalization, exchanges and collisions among different cultures are becoming more and more frequent [21-23] . History and culture education is not only an important way to pass on the national culture, but also an important carrier to cultivate students' global vision and cross-cultural communication ability. Therefore, the teaching reform should pay more attention to the cultivation of students' international vision and intercultural literacy.

Secondly, to meet the requirements of students' personalized development, traditional history and culture education often adopts a single teaching method, resulting in a lack of students' interest in learning. Teaching reform should emphasize the introduction of diversified teaching means and methods, such as digital media technology and interactive teaching, in order to stimulate students' interest and initiative in learning. Student has their own learning needs and potential. Teaching reform should pay attention to students' individualized needs [24] and realize targeted teaching.

Thirdly, to enhance the efficiency and quality of education and teaching, digital media technology provides rich teaching resources for history and culture education, such as digital museums, online courses, virtual history scenes and so on. These resources can help students understand history more intuitively and vividly, and enhance the learning effect. Teaching reform encourages the use of innovative teaching methods and approaches, such as inquiry-based learning, cooperative learning, etc. In addition, it enables teachers to access and integrate teaching resources more conveniently and improve the efficiency of lesson preparation. Digital teaching platforms can also realize distance learning and online interaction, improving the efficiency and quality of teaching.

3 OPPORTUNITIES FOR HISTORY AND CULTURE EDUCATION BROUGHT ABOUT BY DIGITAL MEDIA TECHNOLOGIES

Digital media technologies are more diverse and can permeate all aspects of history and culture education, and the main developmental impacts of both are shown in table 2 below.

Table 2 The impact of digital media technology and the development of history and culture education

Aspect	The Impact of Digital Media Technology	Development of Historical and Cultural Education
Teaching resources	Provide massive online historical and cultural resources; Digital libraries, museums, and other resources; Virtual reality and augmented reality technology simulate historical scenes	Enriching historical and cultural teaching content; Improved the learning experience of students; Promote the inheritance and popularization of historical and cultural knowledge
teaching method	Interactive multimedia teaching; Online collaborative learning; Flipped classroom mode; Gamified learning	Enhance student interest and participation in learning; Promote cooperation and communication among students; Increase the flexibility and personalization of learning; Enhance students' learning motivation and initiative
Student participation	Real time feedback mechanism, personalized learning path, interdisciplinary integrated teaching	Assist students in understanding their learning situation; Meeting the diverse learning needs of students; Promote the intersection and integration of history and culture with other disciplines

Internationalization development	Cross border resource sharing, international cooperation projects, and opportunities for cross-cultural exchange	Promoted international historical and cultural exchanges and cooperation; Expand students' international perspectives and cross-cultural communication abilities; Promoting the internationalization of historical and cultural education
Cultural heritage protection	Digital preservation and restoration technology; Virtual exhibitions and online guides; Social media and online platform dissemination	Protecting and inheriting precious historical and cultural heritage; Enhance public awareness and importance of cultural heritage; Promoting the popularization and dissemination of cultural heritage

As can be seen from table 2, the impact of digital media technologies on the development of history and culture education includes teaching resources, teaching methods, student participation, internationalization and preservation of cultural heritage, with the following opportunities:

First, to enrich teaching resources and expand teaching methods. Digital media technology makes history, culture and education resources no longer limited to traditional paper textbooks, but can obtain massive digital resources through the Internet and other channels, such as historical documents, pictures, audio, video, etc. These resources are not only huge in quantity, but also various in variety, providing rich materials for historical and cultural education. It can also realize multimedia display and interaction ^[25]. For example, students can experience historical scenes in person through virtual reality technology, and interact with historical characters through augmented reality (AR) technology, which greatly improves their learning experience.

Second, to improve students' participation in learning, digital media technology makes history and culture education no longer boring, through vivid images, sound, animation and other ways to show history, making the learning process more interesting. In addition, it provides more interactive ways, such as online quiz, group discussion, virtual games, etc., to encourage students to take part in the learning process and improve the degree of participation. Teachers can design some history-themed virtual games, so that students can understand history knowledge in the game.

Third, to promote personalized learning and development, digital media technology encourages students to learn historical and cultural knowledge through independent learning inquiry, students can complete the study according to their own learning progress and needs, to develop their independent learning ability.

Fourth, to optimize teaching management and assessment, digital media technology can conveniently manage and organize teaching resources, realize distance learning and online interaction, making teaching more flexible and efficient. In addition, digital media technology also provides a variety of assessment tools and methods, such as online testing, data analysis, etc., to accurately assess the learning effect of students.

4 TEACHING REFORM STRATEGIES FOR HISTORY AND CULTURE EDUCATION BASED ON DIGITAL MEDIA TECHNOLOGY

4.1 Constructing a digital teaching resource base

By collecting and organizing massive historical and cultural educational resources, such as digital documents, pictures, audio, video, etc., a comprehensive and systematic digital teaching resource library is constructed to provide teachers and students with a variety of learning materials to meet their learning needs. Scientific classification and labeling of digital teaching resources can facilitate teachers and students to quickly search and obtain the resources they need. For example, they can be categorized according to the dimensions of historical period, theme, and geographical area, and keyword search function can be provided at the same time.

4.2 Innovative teaching methods and approaches

Use digital media technology to display historical and cultural knowledge to students in the form of multimedia, such as using projectors, electronic screens, etc. to improve learning interest. It can also design various interactive links, such as online question and answer, group discussion, role play, etc., so that students can learn and master knowledge in participation, stimulate students' enthusiasm and initiative, and improve students' learning effect. Use VR and AR technology to create virtual historical scenes and characters, so that students can experience history in person and enhance their immersion.

4.3 Improve teachers' digital literacy

Strengthen the training of digital media technology for teachers, improve their digital literacy and application ability, including basic computer operation skills, the use of digital media software, and the production of digital teaching resources. Teachers are encouraged to use digital media technology for teaching design and explore new teaching modes and methods. At the same time, establish a communication and sharing platform between teachers to promote the dissemination and sharing of teaching experience.

4.4 Establish an evaluation feedback mechanism

Using digital media technology, an online testing and evaluation system is designed to monitor and evaluate students' learning effect in real time. Encourage students to ask questions and suggestions, communicate and interact with teachers, enhance students' sense of participation and belonging, and promote good relations between teachers and students.

4.5 Integration of online and offline teaching resources

Using digital media technology and integrating online and offline resources, online courses can be provided through the network platform to carry out classroom teaching practice activities. Strengthen cooperation and exchanges with other schools and institutions, share high-quality teaching resources and experience, and expand students' horizons and knowledge.

5 CONCLUSION

With the rapid development of science and technology, digital media technology has penetrated into all fields of society and had a far-reaching impact on education. In the history and culture education field, the introduction of digital media technology provides new ideas and methods for teaching reform, which makes the teaching content richer and more vivid, and the teaching methods more diversified and flexible. Digital media technology provides a variety of teaching methods for historical and cultural education. For example, online courses and virtual classrooms allow students to learn historical and cultural knowledge anytime and anywhere. In addition, digital media technology enables a large number of historical and cultural resources to be digitally stored and displayed, providing rich teaching materials for historical and cultural education. Through digital images, virtual reality and other technologies, historical events, people and scenes can be presented to students in a more intuitive and vivid way, and students' participation in learning can be increased. Based on the requirements of historical and cultural education reform, this paper expounds effective teaching reform strategies based on digital media technology, which has made certain contributions to realizing the sharing of historical and cultural education resources and promoting the teaching innovation of historical and cultural education.

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