



# Research on Information Teaching of Music Curriculum in Colleges and Universities from the Perspective of Curriculum Ideology and Politics

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**Abstract.** With the deepening of higher education reform, curriculum ideological and political education, as a brand-new educational concept, is gradually becoming an important force to promote the innovative development of higher education. In this context, music courses in colleges and universities are also facing challenges and opportunities of deep integration with ideological and political education. In this regard, this paper first combs the current situation of information-based teaching of music courses in colleges and universities, points out the problems and shortcomings in integrating ideological and political elements into the courses, and puts forward specific solutions from different dimensions, aiming at deepening the ideological and political elements in music courses through information-based teaching means and realizing the integrated development of music education and ideological and political education. Practice has proved that by building a multi-interactive education platform for ideological and political education in music courses, the deep integration of music education and ideological and political education in courses can be effectively promoted, and at the same time, the information transformation of ideological and political education in courses can be realized. It is beneficial to the innovative development of music education in colleges and universities, and lays a foundation for cultivating talents with noble moral character and profound cultural accomplishment in the new era.

**Keywords:** Information teaching; Curriculum ideology and politics; Music curriculum in colleges and universities; Multi-interactive education platform.

## 1 Introduction

In the new era, curriculum ideological and political education, as a brand-new educational concept, is gradually becoming an important force to promote the deep integration of subject education and ideological and political education. [1] In the current higher education system, music education curriculum, as an important part of humanistic quality education in colleges and universities, plays an irreplaceable role in cultivating students' aesthetic sentiment and enhancing cultural literacy. However, the

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traditional music education model is often limited to the teaching of music skills and knowledge, ignoring the unique value of music education in ideological and political education. Therefore, how to innovate the teaching mode of music courses in colleges and universities and realize the organic combination of music education and ideological and political education has become an urgent problem in the field of music education.

Faced with the above problems, many experts and scholars at home and abroad have conducted extensive and in-depth research, trying to use information technology as the core medium to promote the innovation and change of traditional teaching mode. For example, Zhang Mei [2] made innovative research on vocal music teaching in colleges and universities under the background of informationization, and put forward specific implementation measures in teaching concepts, teaching resources and teaching methods. Amir Begi [3] and others verified the practical application effect of digital information technology in remote network music teaching through many examples, and completed the corresponding data evaluation. Li Jiaona [4] and others focus on creating a brand-new music learning environment for students by using digital technology in view of the existing problems in ideological and political teaching in colleges and universities, and put forward constructive suggestions for better reform and practice of ideological and political teaching in digital music courses. Therefore, this paper will focus on the innovative points of information technology in ideological and political education of music courses in colleges and universities, and put forward practical strategies in combination with the actual needs of colleges and universities, so as to improve the quality and effect of ideological and political education of music courses in colleges and universities and promote the all-round development of students.

## **2 Innovative Points of Information Teaching on Ideological and Political Education of Music Courses**

### **2.1 Expansion and Integration of Teaching Resources**

Through multimedia, internet and other technical means, teachers can easily obtain all kinds of music materials, historical materials, cultural backgrounds, etc., thus broadening students' horizons and enhancing their understanding and feelings of music works. At the same time, information technology can also integrate different sources and forms of teaching resources to form a systematic and coherent teaching resource pool, which provides strong support for teaching. [5]

### **2.2 Innovation and Optimization of Teaching Mode**

The traditional teaching mode is often dominated by teachers' teaching, while students are in a state of passive acceptance. Information-based teaching technology can introduce online discussion, collaborative learning, counseling and answering questions into daily teaching practice, further enhance students' learning enthusiasm, and thus

deepen their understanding and understanding of the content of music ideological and political education.

### **2.3 Accuracy and Efficiency of Teaching Evaluation**

Through data collection and analysis, teachers can timely understand the learning situation of students, identify existing problems and shortcomings, and then adjust teaching strategies to improve teaching effectiveness. Meanwhile, information technology can also provide objective and scientific basis for teaching evaluation, making the evaluation results more fair and accurate.

## **3 Innovative Practice Path of Ideological and Political Education in Music Courses**

Based on the innovative points of information technology teaching for ideological and political education in music courses mentioned above, this study will focus on proposing specific practical solutions from the aspects of teaching content design, teaching methods, and teaching mode optimization. [6] In the specific implementation process, we first clarify the teaching objectives from the pre class stage, deeply explore the ideological and political elements in music works, and combine them with music knowledge and skills to fully prepare for classroom teaching. During the in class stage, we adopt diverse teaching methods, including classroom lectures, demonstrations, discussions, as well as online teaching platforms for self-directed learning and interactive discussions. In the after class stage, we improve the evaluation and supervision mechanism, comprehensively evaluate students' learning outcomes and performance through diversified evaluation methods. Through this practical plan, we aim to cleverly integrate ideological and political education into music curriculum teaching, thereby enhancing students' music and ideological literacy.

### **3.1 Construction of Online Teaching Platform**

According to the above practice plan, online teaching platform is an important carrier to realize the integration of music education and ideological and political education, and also a core tool for promoting information teaching. Therefore, the design and development of the platform will be highly in line with the actual needs of university teachers and students, and reasonable planning and coordination will be carried out from two aspects: technical selection and functional improvement. Firstly, the platform as a whole belongs to the B/S architecture, and the front-end interface mainly involves frameworks and components such as Vue.js, Vue templates, Element UI, and Axios. Secondly, when building the backend server, the frameworks and libraries used include Spring Boot, MySQL, Hibernate, and RabbitMQ. [7]

The development environment configuration of the platform is as follows: the underlying operating system on the server side is Windows 10.0 (64bit), the runtime environment is Jdk 19 (64bit), and the development script language is Java. From a

specific perspective, Vue.js is chosen as the front-end interface framework, and SSH (Spring+Struts+Hibernate) is chosen as the back-end server framework. It is paired with the web server Tomcat 10.1.0 and the database server MySQL 8.0.31 to ensure that the overall teaching platform is running efficiently and stably. In addition, all development operations are completed under the Eclipse 2024 integrated tool to improve platform development efficiency and quality.

### 3.2 Integrated Design of Teaching Content

The online teaching platform provides broad space and flexible means for the integration of music education and ideological and political education. Through the platform, teachers can upload music teaching resources containing ideological and political elements in the pre class stage, such as music works, historical background materials, and cultural interpretations, for students to learn and explore independently. In order to improve the convenience of teacher users uploading resources, the Vue.js framework in the front-end interface of the platform has preset a Web Uploader component, and monitors the overall progress of the upload process through Javascript scripts. [8] The following is the pseudocode implemented by the system front-end function during the actual operation of the teacher:

Function: Create a Vue component and complete upload progress monitoring
<pre> &lt;div class="web-uploader"&gt;   &lt;input type="file" @change="onFileChange" /&gt;   &lt;button @click="uploadFile"&gt;Upload file&lt;/button&gt;   &lt;p v-if="uploadMessage"&gt;{{ uploadMessage }}&lt;/p&gt; </pre>

### 3.3 Diversified Teaching

Firstly, the online teaching platform is equipped with a real-time interactive function module, allowing student users to directly ask questions to teacher users during the self-learning process, as well as communicate and discuss with other classmates. [9] Secondly, the online teaching platform also has functions such as homework management, test management, and learning progress tracking. At the same time, teacher users can also timely obtain actual learning data and situations of students, form corresponding process evaluation results, and provide necessary feedback for subsequent course teaching. In addition, the unique content display mode of online teaching platform can support student users to participate in various virtual practice scenes and simulation cases of ideological and political education online, such as concerts, music and cultural exchange activities.

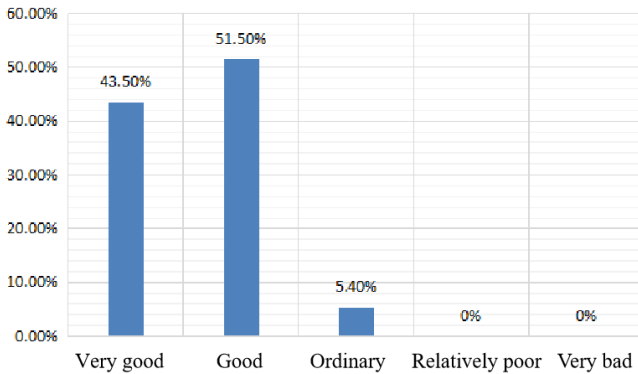
### 3.4 Improve Teaching Evaluation

Compared with the evaluation methods in traditional teaching models, the evaluation methods in the digital teaching environment have more dimensions and evaluation

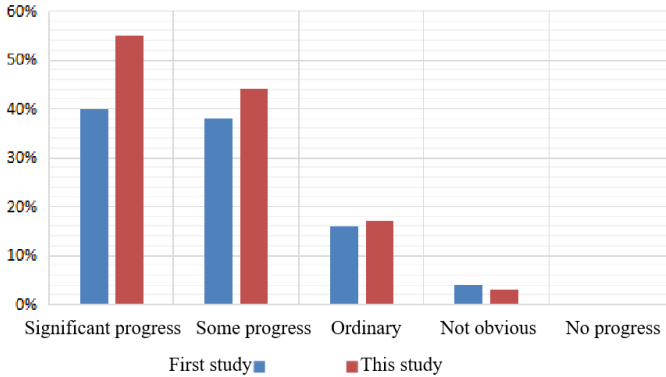
subjects, and the overall teaching evaluation system is also more complete. Table 1 shows the specific setting of the music curriculum teaching evaluation system. [10]

**Table 1.** Teaching evaluation system of music course

Evaluation results	Evaluation method	Evaluation subject	Evaluation content	
Evaluation of the student's learning effect	Process evaluation	Teacher evaluation	Classroom teaching	attendance rate
				classroom performance
			Online self-study	Learning task completion degree
				Homework and test completion degree
		Communication frequency		
		Simulation practice	Practical task completion degree	
		Student self-evaluation	Learning process	Overall learning progress
				Teamwork performance
				Practical project performance
			Learning effect	Degree of knowledge mastery
Ability promotion level				
State of ideological progress				
Summative evaluation	Teacher evaluation	Achievement	Assessment results	
Evaluation of the teacher's teaching effect	Process evaluation	Evaluation of students and teachers	Overall teaching process	



**Fig. 1.** The evaluation results of students' overall learning progress



**Fig. 2.** The evaluation results of students' ideological progress

Based on the above evaluation system, students and teachers can perform scoring operations on the evaluation function module in the online teaching platform. At the same time, the platform will also statistics and analysis of various scoring data, generate evaluation reports, and make teaching evaluation more intuitive and concrete. Figure 1 shows the evaluation results of students' overall learning progress, and Figure 2 shows the evaluation results of students' ideological progress.

## 4 Conclusion

Combined with the actual teaching situation of music courses in colleges and universities, this paper focuses on the ideological and political education of courses, deeply explores the core significance, application advantages and innovative role of information-based teaching in colleges and universities, and puts forward the innovative practice path of ideological and political education of music courses. Practice has proved that it is of positive significance for the development of music education in colleges and universities in the new period to promote the innovation and reform of ideological and political teaching content, teaching methods and teaching mode based on the multi-interactive online teaching platform. In the follow-up research, we will further optimize the setting and deployment of the overall teaching process, strengthen the application of the new generation of digital information technology, and make due contributions to cultivating high-quality compound talents.

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