Research on the Construction of Artificial Intelligence Aesthetic Education Platform Based on Moodle

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Abstract. At present, most schools are short of intelligent teaching platform resources for aesthetic education, which leads to the lack of personality education and emotional education, as well as the poor interaction and experience of emotional communication. Based on this, this paper first analyses the connotation and role of Moodle info platform, then studies the current situation and problems of aesthetic education info teaching, and finally gives the construction strategy of AI aesthetic education platform based on Moodle.

Keywords: AI, Aesthetic Education, Moodle

1. Introduction

With the iterative maturity and progress of modern info tech represented by computer, it has been widely and deeply studied and popularized in many fields, especially in the teaching field represented by aesthetic education, which greatly promotes the improvement and development of aesthetic education [1]. As a kind of aesthetic education, aesthetic education focuses on the cultivation of students' psychology and emotion, so as to improve students' humanistic spirit. On the other hand, with the iterative progress of social economy, all sectors of society put forward higher requirements for the comprehensive quality of talents. In this context, a variety of network, info-based teaching platform has been widely used in the field of aesthetic education, and put forward new requirements for aesthetic education, in order to better cultivate students' aesthetic creativity and promote students' all-round and comprehensive development.

In addition, with the progress of various network platforms as shown in Figure 1 below, AI teaching has been highly valued and developed in the field of aesthetic education. The network teaching platform represented by Moodle has brought unprecedented strategic opportunities and challenges to the innovation of aesthetic education and the construction of high-quality digital teaching resources [2]. On the other hand, aesthetic education has a significant effect on students' temperament,
spirit and personality, so it has become an indispensable part of improving students' comprehensive quality.

The construction of aesthetic education digital resources, through the creation or cooperation of Moodle platform to achieve extensive sharing, and the development of aesthetic education network teaching plays a supporting and leading role in online teaching reform, and is the key support for the construction of online and offline aesthetic education system. However, most schools are short of intelligent teaching platform resources, which lead to a lot of teaching deficiencies, such as the lack of personality education and emotional education, and the poor interaction and experience of emotional communication [3]. On the one hand, these problems lead to the students' weak sense of aesthetic experience and the lack of deep integration of info tech and subject teaching; on the other hand, aesthetic education has become a weak part in the field of info network teaching.

In a word, relying on Moodle platform to build an intelligent teaching system of aesthetic education can improve a more interactive, experiential and interactive environment for students' aesthetic education learning with the help of structured curriculum management system, diversified interactive tools and multimedia. Under the background that the traditional network teaching platform designed by learning theory cannot meet the needs of cultivating students' personalized aesthetic education, it is of great practical value to actively study the AI aesthetic education platform based on Moodle.

![Figure 1. Typical representative of network platform](image)

2. Connotation and function of Moodle info platform

2.1. The connotation of Moodle info platform

With the iterative progress and maturity of computer info tech, the related teaching activities represented by aesthetic education have made more significant improvement, which are shown in the following table 1. Aesthetic education teaching has experienced the improvement of courseware, teaching plan, curriculum and network system. Among them, at the curriculum level, with the help of info platform, learning environment can be designed. At the level of aesthetic education management system, a series of links such as organization, tracking, evaluation and teaching interaction are carried out efficiently [4]. Moodle info platform is a content management, course management and learning management system, which can realize the organic integration of various components of teaching activities, and realize the construction of aesthetic education quality info environment.

| Table 1. Application performance of info tech |
3.1. The present situation of info teaching in aesthetic education

2.2. Typical characteristics of Moodle info platform

Moodle info platform has the typical characteristics of open source code, free of charge, supporting SCORM and supporting teachers’ teaching management. Secondly, the platform also has high operability, which can realize independent aesthetic education curriculum design and management [5]. In addition, Moodle info platform has been widely used in many countries and teaching systems after iterative updating and upgrading. Moodle info platform reflects the advanced teaching concept, can support a variety of teaching methods, and realize many social software functions. The platform can also change the concept of teacher education and teaching methods, focusing on the design and implementation of diversified teaching evaluation. For example, process, summary, collective evaluation, teaching plan design and aesthetic resources and activities design.

2.3. Typical functions of Moodle info platform

Moodle info platform can first meet the needs of aesthetic education teachers' self-design and use [6]. Its low threshold of tech use and its modular and functional combination characteristics enable it to carry out free combination according to the needs of teachers. Secondly, the platform can realize the free choice of interface, function and plug-in, so it has a wide range of applicability and matching. In addition, with its SOA, it could build a service-oriented architecture, so as to realize the design and management of different courses of aesthetic education. Specifically, the typical functions of Moodle info platform are shown in Figure 2 below.

| Aspects       | Contents                                         |
|---------------|--------------------------------------------------|
| Skill         | Realize the function of teaching management       |
| Knowledge     | Curriculum design, evaluation and management      |
| Attitude      | Assistant decision making, curriculum reform and innovation |

Figure 2. Typical functions of Moodle info platform

3. The current situation and problems of info teaching of aesthetic education

3.1. The present situation of info teaching in aesthetic education
At present, with the continuous improvement of info-based teaching methods, aesthetic education info-based teaching has the typical characteristics of sharing, opening, cooperation and autonomy [7]. However, the development cycle of the current aesthetic education info teaching course is too long, which is reflected in the process of aesthetic education info teaching, the update of teaching info cannot be automated, the lack of sharing between courses, and the phenomenon of repeated development. Secondly, there is a lack of necessary communication in the info-based teaching of aesthetic education. Info and resources sharing channel is not smooth, also makes the related aesthetic education teaching activities difficult to achieve the set goal. In addition, the aesthetic education teaching management is not standardized, mainly in the lack of effective monitoring of students' learning behavior in the aesthetic education teaching management module, and it is difficult to grasp the progress of students' learning progress and learning effectiveness.

3.2. The problems of info teaching in aesthetic education

First of all, the current aesthetic network teaching support tools lack of effective cooperation, which leads to the lack of unity of aesthetic education curriculum and poor maintainability of the system. Secondly, the curriculum of aesthetic education is unreasonable, and there is no effective large-scale and systematic teaching system. Moreover, students' aesthetic ability, creativity and appreciation ability are relatively weak, and lack of good aesthetic quality and characteristic thinking, which affects the sustainable development of aesthetic education.

In addition, most schools do not pay enough attention to aesthetic education, which is not conducive to the cultivation of students' aesthetic quality [8]. The development of aesthetic education is out of touch with the teaching objectives of the school, and there are some limitations in the teaching thought of emphasizing theory, skills and culture. In this kind of atmosphere, the school puts too little resources into aesthetic education, so it is urgent to pay more attention to aesthetic education.

4. Construction of AI aesthetic education platform based on Moodle

4.1. Elements of AI aesthetic education platform based on Moodle

The elements of Moodle based AI aesthetic education platform are mainly composed of participants, tools, aesthetic curriculum resources, etc. Among them, the participants of Moodle based AI aesthetic education platform maintain the operation of the platform with the help of relevant contracts, and build the necessary info environment for aesthetic education curriculum resources by using the corresponding tools [9]. Through the organic integration of these elements, with the help of AI tech as the representative tools and media, the sharing and interaction of aesthetic education courses can be realized, and the aesthetic literacy of students and groups can be improved.

In addition, aesthetic education curriculum resources are based on students' cognition of aesthetic education knowledge to complete the construction of curriculum resources system [10]. With the help of classification and integration of info-based learning guidance platform and course content module, students' cognitive dimension and vision can be expanded. With the typical advantages of open, compatible and integrated multimedia tech of Moodle platform, interactive and creative cooperative learning can be realized, which can better meet the needs of aesthetic education teaching.
4.2. The function of AI aesthetic education teaching platform based on Moodle platform

The AI aesthetic education teaching platform based on Moodle platform should first have the function of scene introduction, with the help of rich learning resources in the network system and diversified media to bring teachers and students into the real teaching situation, so as to strengthen students' learning experience. Its topic module can provide background links, multimedia, and realize the presentation of topic content in various forms. Secondly, the platform should also have the function of collaborative learning and interaction. With the blessing of Moodle platform and AI tech, teachers and students can interact regularly. On the one hand, teachers can effectively monitor the learning situation of students; on the other hand, students can timely feedback their learning confusion and learning situation to the classroom to help teachers carry out targeted teaching optimization. In addition, the platform should also have the function of knowledge construction, with the help of Moodle platform to fully tap aesthetic education teaching resources, to better realize the construction of knowledge.

4.3. Construction of AI aesthetic education platform based on Moodle

The construction of AI aesthetic education platform based on Moodle should be based on the principles of democracy and equality, cooperation and sharing, autonomous learning and continuous innovation. After the installation of Moodle, the test module is used to realize the definition of question bank and the setting of automatic scoring system, and the correct content is fed back and debugged. Secondly, the SCORM module is used to integrate aesthetic education teaching resources, formulate teaching standards, and realize the design and development of teaching content and teaching materials. In addition, in the design and implementation of aesthetic education teaching activities, the role of students is defined and grouped, and collaborative teaching based on situational inquiry is carried out to promote the well-structured development of learning community.

In a word, with the help of Moodle's AI aesthetic education platform, we can significantly improve public art education, strengthen AI info teaching, and deepen teaching reform. Through the improvement of AI teaching platform, enrich the practice of aesthetic education, strengthen the training of teachers, and build a diversified team of teachers.

5. Conclusion

In summary, the intelligent teaching system based on Moodle platform, with the help of structured curriculum management system, diversified interactive tools and multimedia, can better match the era background of cultivating students' aesthetic education personalized learning. Based on the analysis of the connotation and function of Moodle info platform, this paper studies the typical characteristics and functions of Moodle info platform. Through the research on the current situation and problems of aesthetic education info teaching, the shortcomings in teaching are analyzed. And through the analysis of the construction of AI aesthetic education platform based on Moodle, the construction elements, functions and construction strategies of the platform are also studied.

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