

# Construction of Modern Digital Learning Platform Based on Digital Media Technology

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**Abstract:** The construction of modern digital learning platform based on digital media technology specialty should provide a more effective way of interaction between students and students, between students and teachers, and between students and resources, so as to make the education of digital media technology major more efficient. By combining the teaching characteristics of digital media technology specialty and the advantages of modern digital learning platform construction, we hope to improve students' comprehensive literacy. This paper discusses the construction of modern digital learning platform of digital media technology, hoping to promote the sustainable development of digital media technology specialty.

## 1. Introduction

The construction of modern digital learning platform based on digital media technology specialty is an important means of professional development. In this process, as a school should ensure the rationality of curriculum establishment, improve the efficiency and pertinence of learning platform construction, at the same time, we should pay attention to the change of students' learning concept and give full play to the positive role of modern digital learning platform construction.

## 2. Digital Learning Overview

Digital learning mainly means that students can combine professional courses with information technology, make full use of learning resources in the digital learning atmosphere, and carry out the construction of modern digital learning platform in a digital way. It is mainly based on a series of digital methods such as computer and network to realize the integration of pedagogy. By making full use of this characteristic of computer technology, we can construct a reasonable communication mechanism for students, enrich students' teaching resources and construct a good learning environment, which is also one of the main trends of the current digital media technology professional reform. Digital learning can break through the traditional teaching mode and improve the modern education mode, which is not only the simple use of the network to provide learning, but also through the use of a series of standardized technology and management means to finally achieve the comprehensive solution of digital learning. From three aspects of teaching service, content material and technology platform, the interaction between students and resources is finally realized, and a better communication platform is provided.



Figure 1 Digital learning

### 3. On Digital Media Technology

Building a special professional system is the core content of the school to improve the teaching quality and realize the teaching reform. In the process of developing the digital media technology specialty, through the continuous efforts to cultivate the complex talents with computer and fine arts skills and high = professional literacy for the country, through the integration of technology and art, while enriching the students' digital media knowledge, it can also improve the students' humanistic quality, and finally promote the students' all-round development, so as to meet the talent needs of the entertainment industry and animation industry in China. As a kind of multi-disciplinary and cross-disciplinary major, digital media technology has great uncertainty in learning objectives and teaching methods. At present, the construction of modern digital learning platform based on digital media technology mainly involves more than ten disciplines. In the early stage of the platform, a number of teachers can be entrusted with the responsibility of each subject. Teachers form a unified courseware and practical project by writing curriculum contents, determining teaching materials, compiling teaching calendars, launching scientific research discussions, and determining the final inspection methods. Form a modern digital learning platform with the characteristics of digital media technology specialty.



Figure 2 Introduction to digital media technology courses

### 4. Construction Planning of Modern Digital Learning Platform

The main construction direction of modern digital learning platform based on digital media technology specialty is technical specialty course, which is constructed by combining the characteristics of some art design. In the aspect of content material, we should not only gather the teaching plan of digital media technology professional course, the video of off-campus personnel, but also take art design as the main learning aspect, and promote the students' all-round development by constructing a large amount of creative material. In the software part, we mainly

take picture, text, animation and other media integrated resource data as the management system, and connect with the data port of the academic affairs office of the school[1]. The software of the modern digital learning platform is mainly divided into the following six subsystems: assignment submission system, course management system, assignment correction system, assignment display system, practical teaching on demand system and online communication system. Through the application of these six subsystems, students can be provided with better educational resources, while improving the knowledge service system, they can also formulate corresponding teaching standards and finally build an efficient and safe learning environment.



Figure 3 Digital learning platform

## 5. Design Modern Digital Learning Platform

### 5.1. Enriching Teaching Resources

To ensure the teaching quality of digital media technology major is an important foundation to realize the construction of modern digital learning platform. For colleges and universities, in the process of constructing teaching resources, we should proceed from the specialty itself to ensure the development of learning and teaching. First, we should ensure the network environment, and second, we should strengthen the awareness of learning platform construction. In the process of teaching, students are always taken as the main body of learning. In the process of teaching, teachers guide students to fully realize the importance of the construction of modern digital learning platform, and ensure the rationality of the construction of learning platform from the teaching content and teaching methods of digital media technology major. Through the construction of modern digital learning platform can also achieve the construction of resources. On the basis of perfecting the platform architecture system, we should promote the sharing of teaching resources and give full play to the exemplary function of the construction of modern digital learning platform[2].

## 5.2. Build Cloud Platform

The core content of cloud computing is to realize the sharing of teaching resources through processing and storing big data, which is also the main development direction of education in the future. The construction of modern digital learning platform based on cloud computing platform will also have certain pertinence. In the process of building learning platform, by applying cloud computing technology to it, the learning platform will finally have the characteristics of virtualization, scale and security. In the process of digital media technology professional curriculum reform, by strengthening the construction of cloud platform, can also fully reflect the learning platform construction service process. Cloud platform construction has more resources to ensure the integrity of professional teaching, on this basis, by strengthening the management of the construction of modern digital learning platform, but also to create a fine teaching resource bank. To build a reasonable modern digital learning platform, we should set up a learning library separately

and take the relevant standards as the benchmark to make the professional content and professional standards more reasonable, but also to further extend the course of digital media technology platform. In the process of ensuring the construction of digital platform, we can also ensure the connection between learning resources, and finally correspond to the teaching needs of digital media technology major, combine the characteristics of this major, carry out targeted course contents, select and combine the functional modules of digital learning platform, and establish unified standards, on this basis, provide video and audio and other functions, so that the teaching of digital media technology major keeps pace with the development of the times[3].

### **5.3. Increase Promotion**

The construction of modern digital learning platform based on digital media technology specialty can solve the problem of single teaching method and insufficient resources in the traditional teaching process. The establishment of learning platform can also make students more interested in the study of this major and increase communication between teachers and students. Therefore, the emergence of modern digital learning platform construction has improved many problems in the past teaching process. By strengthening the publicity of courses in the learning process, students can fully realize the importance of the construction of digital platform, understand the learning characteristics of this major, and realize the value of the construction of modern digital learning platform in the process of practical application. As an education department, it should also develop reasonable ways to publicize the importance of curriculum system construction and help schools establish learning platforms according to the students' learning situation[4]. In the process of school development, departments can also be taken as units to strengthen the management of modern digital learning platform. In the initial application stage, we can select professional teachers to carry out the task, ensure the rationality and efficiency of the construction of modern digital learning platform, increase the promotion of the construction of modern digital learning platform, and fully stimulate the enthusiasm of teachers and students to learn.

### **5.4. Improving The Review Mechanism**

In order to ensure the rationality of the construction of modern digital learning platform for digital media technology major, the corresponding evaluation mechanism should be established. Only by carrying out regular evaluation of students' learning situation can we ensure the rationality and sustainability of the content and mode of the construction of digital learning platform now. Through the planning of reasonable courses, clear teaching process, in this process, students need to conduct self-evaluation and digital media technology professional evaluation. On the one hand, it can make students find the defects in the construction of modern digital learning platform through self-evaluation, at the same time, it can also put forward reasonable suggestions to the learning platform, which is helpful for the school to improve the teaching resources and submit them to the professionals for examination and verification. Through strengthening the audit and feedback of digital media technology specialty, the course teaching system is further optimized, so as to have a developmental and applied platform construction model, and give full play to the important role of digital platform learning.

## **6. Concluding Remarks**

To sum up, the construction of modern digital learning platform can not only improve the teaching efficiency of digital media technology major, but also promote the sustainable development of modern education. However, at present, the construction of digital learning platform in the teaching process of our country is short of time, both teaching concept and operation have some limitations. Therefore, colleges and universities should improve the functions of modern digital learning platform construction based on the current teaching situation, and finally promote the sustainable development of college education.

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