

# Construction of Modern College English Learning Environment Oriented to Smart Campus

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**Abstract:**The requirements for English teaching at the university level are divided into three levels, namely general requirements, higher requirements and higher requirements. Among them, it is generally required that students can communicate in English during the learning process. Constructivism believes that students should be the active constructors of the knowledge meaning, rather than passive recipients of external stimuli and with this idea, we integrate the smart campus model into the English learning. In this study, the novel perspectives and suggestions are both provided. We suggest to integrate the technology to combine the efficient teaching to improve the overall quality.

**Keywords:** Smart Campus; Modern College; English Learning Environment; Teaching Technology

## 1. INTRODUCTION

The development process of education informatization has initially spread to all corners of the campus, and the digital campus is gradually moving towards a smart campus. The continuous construction and improvement of smart campus construction has then become an important part of the school's modern development strategy. According to the review, the challenges should be considered as below aspects.

(1) The cloud computing platform of the smart campus builds a private cloud environment on the campus according to its own application scenarios and security requirements.

(2) From the current construction method of the smart campus, the big data center of the smart campus is built within the campus and unified management, resulting in all data must be sent to the central node before it can be mined and analyzed.

With development and transformation of Internet technology, information technology is widely used in various fields such as people's life and study. In the process of the information construction and management, colleges and universities are constantly improving various information systems to improve the efficiency of the student management. In the figure 1, the smart campus model is presented. In the next sections, the proposed model will be studied.



Figure. 1 The Modern Smart Campus (From <https://ostglobal.com/2019/02/28/smart-campus/>)

## 2. THE KEY IDEAS OF DESIGNED MODEL

### 2.1 The Discussion of Smart Campus

With the continuous development of big data technology, in the education system, data such as interactive analysis of learning resources and learners, data collection of educational management and the teacher-student behavior chain, teaching evaluation and effective feedback between testees can all be obtained through Mobile communications and context-aware devices conduct non-perceptual collection to form the data ecology. Intelligently identify the modern learning, working conditions and personal characteristics of the teachers and also students, organically connect the physical space of the school with the digital space, establish a smart and open education and teaching environment and a convenient and comfortable living environment for teachers and students, and realize people-oriented personalized innovative services.

The smart campus has following suggestions.

(1) Ensure that the built smart campus has good openness and scalability, and can provide flexible architecture support for subsequent system access and function increase. At the same time, build the school's data middle platform to realize data integration, analysis, integration, distribution, prediction and other functions.

(2) In the intelligent campus the basic connotation features of intelligent teaching reality features, the intelligent learning trajectory features and intelligent learning space features are covered, the can provide support for schools to better use various application scenarios.

(3) On the basis of the overall sharing of the school and the premise of ensuring data security, various information and data sharing services are provided, so that the data can meet the needs of various business uses and decision support.

(4) The smart campus student registration management system mainly manages the modern school student information comprehensively through the Internet technology, WeChat applets, WeChat public accounts and Web browsers.

Student users can fill in information through the WeChat client.

## 2.2 The College English Learning Environment Discussion

Constructivism believes that students should be the active constructors of the knowledge meaning, rather than passive recipients of external stimuli; teachers should be the helpers of students' active construction of knowledge meaning, rather than the indoctrination of knowledge. Existing research shows that in terms of teaching mode, the document requires that "institutions of the higher learning should make full use of modern information technology, adopt the English teaching mode based on computers and classrooms, and improve the single teaching mode that focuses on teachers' lectures".

Effective teaching supported by a smart learning environment is a personalized teaching model aimed at achieving high efficiency and precision with the help of the information technology. It uses appropriate technology to generate the personalized and also precise teaching objectives, develop appropriate teaching materials, design appropriate teaching activities, and evaluate learning and teaching effectiveness based on data analysis recorded by the intelligent system.

Learning environments vary widely and each has its own strengths. How to organically integrate various learning environments into a whole to form synergistic effect requires educators to think carefully, find a good way to train students to learn English, and adopt appropriate strategies to improve the effectiveness of English teaching. Due to the personalized characteristics of online teaching, it can not only help students complete the training of listening and speaking, but also provide a lot of the knowledge and information in reading, writing, culture, etc., which has then a positive effect on the cultivation of students' independent learning ability.

We emphasize the importance of the design of the learning environment rather than the teaching environment. "Situation", "collaboration", "conversation" and "meaning construction" are the four elements in the learning environment. The three-dimensional online English learning environment advocates the dominant position of students.

It breaks the limitation of the time and space, takes English classroom teaching as the center, and is supported by basic multimedia and computer network technology. We want to carry out the continuous pronunciation training for college students. In order to successfully complete college English pronunciation teaching, not only teachers should pay attention to the continuous education of students in the teaching process, but also carry out continuous training for teachers to enhance their own abilities.

## 3. CONCLUSION AND SUGGESTIONS

College English is a compulsory course for the non-English majors. However, there are a large number of college students in China, and the per capital teaching resources are weak. How to realize the effectiveness of foreign language teaching has become a major challenge for foreign language research. In this study, the novel perspectives and suggestions are both provided. We suggest to integrate the technology to combine the efficient teaching to improve the overall quality.

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