Research on the Deep Integration of Information Technology and Undergraduates Professional English Teaching under the Background of Educational Informatization

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Abstract
With the rapid development of information technology and the deepening of professional English teaching reform, the "Internet+Education" model is becoming more and more mature. Network technology may and should become an important force to promote the reform of undergraduates professional English teaching. In the foreseeable future, information technology, including multimedia network, will not only permeate all components of higher education system, but also affect the path and mode of higher education reform. This paper analyzes the design concept and thinking of undergraduates professional English teaching under the background of educational informationization, and tries to deeply integrate educational information technology with professional English teaching through curriculum content, teaching activities, class hours allocation, assessment scheme, etc., so as to rationally design undergraduates professional English practical teaching scheme.

Keywords
Educational informationization; Information technology; Undergraduates Professional English teaching; Deep integration.

1. Introduction
In recent years, the traditional model of "teacher-centered" English teaching in China has begun to change, and the theory of "autonomous learning" is becoming an important idea guiding the reform of professional English teaching [1]. With the rapid development of Internet+education, information technology has greatly enriched the learning resources of professional English, which is an important and beneficial supplement to traditional English classroom teaching. Only by organically integrating information technology with traditional classroom teaching of professional English, can the efficient teaching be realized. In the Ten-year Development Plan of Educational Informatization (2010-2020) promulgated by the Ministry of Education in 2012, it is clearly pointed out that "promoting educational modernization with educational informatization is a major strategic choice to accelerate the progress from a big educational country to an educational power, and it is an indispensable driving force and support for realizing the grand goal of China's educational modernization." To accomplish these urgent tasks, we need the guarantee of top-level education system and policy, the support of new educational ideas, and the support of technology and means [2].

Under the background of the strong development of national education informatization, information technology has become and will continue to be an organic component of undergraduates professional English teaching reform and practice, which has a revolutionary impact on English teaching. The formulation of the "Planning" not only reflects the state's emphasis on educational informationization, but also clarifies the policy, objectives and tasks for accelerating the construction of educational informationization. More importantly, we need to implement the "Planning" through continuous exploration and reform to promote the
2. Network Technology Background of English Teaching Reform

In recent years, the network technology has developed rapidly in China, and the backbone networks such as educational research network and Jinqiao network have been built across the country. The further influence of the reform of teaching means is the reform of teaching mode, and more and more scholars pay attention to the design and application of flipped classroom teaching mode. Some researches [4] suggest that the transformation from traditional college professional English teaching mode to multimedia network teaching mode is accelerating. Basically, an information-based learning environment in which everyone can enjoy high-quality educational resources has been built, and the level of integration of information technology and education has been significantly improved. English Audio-visual and Speaking is a professional basic course offered by our college. The course starts from the actual needs of students' future employment and implements the goal of training students' professional post ability of "language+skills". Although many experts in our country have studied the integration of information technology and teaching, and formed many representative theories and practices, there must be new research to support the development of educational informationization in our country in the new period and new situation.

The combination of English education and information technology should be said to be ahead of educational informationization in general. As early as 1980s, colleagues in the education sector began to apply modern educational technology to English teaching. However, due to the lack of attention to information technology within the framework of foreign language teaching theory and practice, they failed to touch the structural changes of foreign language teaching system. On this basis, we should further realize the "structural change of the school education system", that is, we should "change the traditional' teacher-centered' classroom teaching structure and construct a new type of' leading and combining subjects' classroom teaching structure" [5-6]. Based on the rapid development of the Internet, we use the information technology and means provided by the Internet for education, build a digital education platform, concentrate high-quality teaching resources, design practical teaching programs for English audio-visual and speaking courses, and achieve the teaching objectives.

3. Significance of Deep Integration of Information Technology and Foreign Language Teaching

3.1. It Is A New Means to Meet the Internal Needs of Foreign Language Teaching Development in the New Era

With the arrival of a new era, the "the belt and road initiative" initiative and the concept of "the community of human destiny" have been widely endorsed and accepted by countries all over the world. China has closer ties with other countries all over the world, and international exchanges have become more frequent, extensive and in-depth. China is welcoming another golden period of great development of foreign language teaching [7]. English education based on information technology is no longer just to build English teaching websites, nor just to provide learning resources based on network, but to provide an intelligent online learning platform (also called online learning space). This coincides with the "deep integration of information technology and teaching" advocated by our country, and further expounds the understanding of the integration of information technology and curriculum. Adopting the
teaching method of combining Chinese and Western, using information-based teaching means, building a practical training platform, making progress and improvement in teacher-student interaction and student-student interaction. Only by integrating information technology with teaching and scientific research to serve the teaching and learning of professional English education can it be regarded as the optimization and integration of information technology and curriculum.

3.2. Individual Development of Learners

In recent years, large-scale online open courses have pushed the movement of open educational resources to a climax. Domestic universities have promoted and applied mixed teaching mode, combining online and offline teaching, and giving full play to students' subjectivity. Learners learn through the network and refer to other people’s experiences, determine their learning goals, prioritize them, and divide their long-term goals into several short-term goals. And set new goals according to the evaluation of learning results. Focusing on cultivating students’ English communication and communication skills, we adopt action-oriented teaching mode, carry out curriculum design based on working process, and train students’ concept and ability of lifelong learning through specific and simulated project teaching tasks in class. In this process, the first is that the integration process should be carried out around the goal of quality education; Second, integration should pay attention to results and evaluation; Third, it is necessary to deeply integrate experiments, with the important goal of creating excellent courses.

3.3. It Is A New Result to Meet the Internal Demands of Foreign Language Teaching Development in the New Era

On the basis of fully understanding this profound change, the theoretical construction and practical exploration of foreign language teaching in the new era must proceed from the internal demands of foreign language teaching development, and make effective use of the influence of information technology on the core elements and processes of foreign language teaching, which can not only provide learners with feedback information and intelligent interaction with learners, but also provide space for teachers, students, administrators and researchers to communicate. Modern educational thoughts and theories and modern information technology are the two basic ingredients of educational informationization, and they are multiplied. If either party is "zero", the result will be "zero" [8]. Through practical training, it can realize the seamless connection with the teaching of specialized courses, fully reflect the requirements of professionalism, practicality and openness, and effectively improve students' professional ability. College English teachers should have the ability to select high-quality teaching resources related to the curriculum and integrate them with the teaching materials. The comprehensive utilization of multimedia network technology, computer technology and other technologies can entertain and provide a new learning method.

4. Teaching Practice of the Integration of Information Technology and Traditional Professional English Classroom

4.1. Integrate Curriculum Resources

The information age provides unprecedented rich resources for foreign language teaching. In the process of educational informationization, the integration and optimization of information resources is the core of educational informationization. In order to improve students' English listening and speaking ability and cultivate students' autonomous learning ability, English comprehensive training is added, which is used to sort out the key points of course learning content, consolidate teaching content, check the effect of online autonomous learning and cultivate students' language output ability. The integration of information technology and
curriculum refers to a new teaching method, which combines information technology, information resources, information methods, human resources and curriculum content in the process of curriculum teaching. For example, creating a smart classroom and applying information technology and means to daily classroom teaching. And gradually improve teachers’ foreign language teaching ability, teaching research ability and teaching theory construction ability in teaching practice [9].

Based on the abundant teaching resources provided by network technology, teachers can better implement the policy of "teaching students in accordance with their aptitude". If you use the function of the network classroom, you can make students use the after-school exercises website question bank for self-examination: select the after-school exercises provided in some textbooks and the exercises in the English learning website question bank for students to self-check the effect of autonomous learning (Figure 1).

![Flow chart of English classroom teaching promoted by network technology](image)

**Figure 1.** Flow chart of English classroom teaching promoted by network technology

In order to enable students to adapt to the mixed learning under the network conditions, have the ability of online learning, and improve the quality and efficiency of courses and teaching through mixed learning, students should first be trained in computer network application and EIP digital learning ability for one week after entering school. Professional English classroom teaching with deep integration of information technology needs to strengthen the top-level design and give full play to the advantages of team teaching. In this link, there is no essential difference between taking notes on draft paper and tablet computer, at least there is no essential difference in learning methods. Using the idea of holistic instructional design can achieve the goal of taking teachers as the leading factor and students as the main body.
4.2. Establish An Information-Based Teaching Environment

In order to create an ideal new talent training environment that meets the actual needs of teaching in the network era, according to the EIP teaching plan, an EIP special classroom is established, which is convenient for teaching and interaction, and is equipped with 65 computers, digital projection and public address equipment. Under the traditional classroom teaching mode, limited classroom teaching time is mainly used to impart language knowledge, while language skills and thinking ability need to be formed and developed in various activities. For another example, reading is always an important channel and way to learn English. With the help of information technology, reading can be made more effective and play a greater role (for example, online English reading platform based on network can push the most suitable reading materials and record students' reading track according to their reading ability). Focus on tasks, analyze knowledge, demonstrate new knowledge, special exercises and comprehensive evaluation. In the normal teaching process, after a given focused task, analysis of knowledge, demonstration of new knowledge, special exercises and comprehensive evaluation are carried out in turn.

When designing teaching activities, it should be considered that each project should start from the actual needs of the activities, formulate specific tasks and explain the specific operation process. Through information technology, we adapt, transform and create various forms and media to adapt to undergraduates professional English teaching, and independently develop curriculum resources suitable for classroom teaching, such as network courseware, network courses, learning websites, case libraries, multimedia resource libraries and so on. After all the students submit their homework in the background, the teacher clicks automatic correction to generate the composition physical examination report, and then the students log in to the software to view the composition related materials. Through this training, students' writing level is gradually improved.

4.3. Innovating Teaching Mode and Promoting Mixed Teaching

In recent years, with the popularity of MOOC, a large-scale online open course, the mixed teaching method of online teaching and offline teaching is increasingly favored by learners. Traditional practices such as setting up extracurricular activity groups have proved to be quite effective, but the shortcomings of these methods are also obvious. Using network technology to establish virtual language environment as a supplement to the real language environment will be beneficial to the cultivation of all students' listening, speaking and expressing abilities. Micro-lessons can show students the language environment and situation of language points more vividly, which is easier for students to accept than traditional teaching methods. This illustrated and vivid multi-dimensional information can strengthen information stimulation, increase information input, fully mobilize and stimulate students' interest in learning, and improve teaching and learning efficiency in unit hours.

In the traditional teaching mode, creating a good English language environment is an important and difficult point in teachers' teaching work. It is necessary to keep pace with the times, keep up with the development of information technology, continuously improve the awareness, knowledge and ability of using information technology, and integrate and reasonably use information technology elements in the specific classroom teaching design and implementation process. In the specific teaching practice, teachers should use the latest educational information technology according to the teaching objectives, find and collect information conforming to the characteristics of higher vocational students' English learning, and integrate them effectively, so as to create different teaching situations for students and make every student become a subject in English teaching situations. In future teaching, teachers should further study the teaching mode of integrating information technology with traditional classroom, constantly update teaching content and teaching methods, and further improve their English ability.
5. Conclusion

Generally speaking, the prospect of the deep integration of undergraduates professional English teaching and information technology is very broad. The essence of the deep integration of information technology and foreign language teaching is the core point and logical starting point of the practical exploration and theoretical construction of the deep integration of information technology and foreign language teaching. Teaching practice also shows that the efficient integration of Internet information technology and professional English teaching in the information age has improved students’ English abilities and achievements. Teachers should make correct use of the advantages of the integration, efficiently assist traditional English classroom teaching and effectively improve the quality of teaching. In a series of activities, such as the construction of curriculum teaching system, the adoption of teaching methods and means, and the development of extracurricular practice teaching, it is constantly optimized and improved to meet the requirements of society for professional talents' ability and quality.

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References