Research Article

Construction and Analysis of College English Teaching Path under the Multiple Network Teaching Environment and Credit System

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With the wide spread of the Internet, information technology begins to enter all aspects of people’s lives, such as teaching. The trend of economic globalization and export-oriented economic development have put forward urgent requirements for the level and quality of English teaching in colleges and universities. However, the current diversified information technology has brought many opportunities and challenges to college English teaching, and the traditional teaching mode can no longer meet the requirements of the new era. Both teachers and students need to communicate and interact through modern network media. Teaching reform has become an inevitable trend. The important premise of deepening college English teaching reform under the credit system is to grasp the needs of students. This paper analyzes the characteristics of the interactive teaching mode, points out the problems and challenges of the traditional English teaching, reveals the achievements and the problems of the reform under the credit system, and concludes that the English teaching mode, which is a practical and effective teaching mode.

1. Introduction

With the rapid development of the Internet, information technology has also been widely used in college English teaching [1]. The trend of economic globalization and export-oriented economic development have put forward urgent requirements for the level and quality of English teaching in colleges and universities. The teaching of the new curriculum should be based on modern information technology, especially Internet information technology, break through the conventional teaching methods in the past classroom, and enhance the autonomy of teachers. Therefore, how to form diversified teaching methods will be the key to the reform of College English Teaching [2].

In English classroom teaching, there is a lack of interaction between teachers and students. The specific performance is that the teacher blindly explains in the classroom, while the students can only passively accept, and the two sides rarely communicate. Even if the teacher occasionally asks some questions, it is often quick to give answers, students lack the opportunity to think and participate, the overall classroom is very boring, and students lack interest. The advancement of teaching reform is naturally even more difficult to mention. The Internet, on the other hand, is highly interactive. The state’s basic regulations on the macrodevelopment strategy of higher education have pointed out the direction for the reform of college English teaching [3].

The credit system is an important measure in the reform of higher education teaching in China. As a teaching management system, it has undergone a process of continuous improvement, the reform of college English teaching is the proper meaning of the reform of the credit system, and improving the “comprehensive application ability of English” of college students is still the main direction of college English teaching reform. Then, through years of credit system education reform, from credit, class hours, subjects, students' independent learning to teaching mode, curriculum focus, teaching resources and teaching management, our main opinions and ideas on the reform of College English curriculum still need to be clarified [4]. Through in-depth research, it is necessary to grasp the psychology of students'
needs [5]. After research, it is necessary to grasp the psychological needs of students [5]. Therefore, we have carried out a special research activity in a certain university with the theme of "College English Teaching Reform under the credit system", and on this basis, we have introduced several main inspirations from the questionnaire survey to further reform the College English classroom [6].

At present, the research results of foreign language researchers on blended English teaching mostly focus on the theoretical discussion of the effectiveness of blended learning methods in College English teaching; Or, pay attention to the interaction with learners in the mixed learning model; English teaching model, as well as the use of academic Various modes can realize the integration of online and offline learning from a macro perspective, but do not give a detailed description from a micro perspective [7]. The specific courses of College English majors and their guiding role deserve further study [8].

Wen Qiufang (2013) put forward the "output-driven hypothesis" for formal foreign language classroom teaching: (1) In terms of the teaching process, the output is greater than the input in foreign language learning, as shown in Figure 1. (2) As far as teaching objectives are concerned, cultivating expressive language skills in speaking, writing, and translating is more in line with social needs. Therefore, the expressions of spoken, written and translated texts are all explicit evaluation goals, while the acceptance skills of hearing and reading are implicit goals [9]. According to the specific requirements of social occupation, college students can choose one or several major abilities in oral, writing and reading as the selection task [10].

2. State of the Art

2.1. The Theoretical Basis of the Multi-Interactive Teaching Mode

2.1.1. Constructivist Learning Theory. Constructivist learning theory provides the most intuitive conceptual support for the multiple interactive teaching mode, while constructivist learning theory focuses on how to internalize the object learning framework into the subject cognitive framework through personal interaction with the object learning structure. Constructivists point out that knowledge refers to the process activities that learners actively deal with knowledge and reconstruct the meaning of knowledge in specific social life scenes on the basis of their own cognitive experience and experience [11]. The application of constructivist learning theory to College English teaching means that learners are not passively accepting knowledge objects, but actively acquiring knowledge and constructing new meanings [12]. In this process, they must truly internalize their professional knowledge into their own language ability through their own practice. However, the traditional teaching methods of foreign language courses in Colleges and universities in China have not achieved this goal well. Since the previous English Teaching in China mainly focused on teaching language theoretical knowledge, teachers generally use abstract words and sentences that are far away from the context as analysis materials, and let learners carry out rational syntactic analysis before English-Chinese translation. Therefore, this teaching method limits their knowledge creation skills and language communication skills. The most important factor is to affect their learning enthusiasm and subjective initiative. At the same time, we should focus on collaborative learning so that students can gain more knowledge [13].

2.1.2. Self-Directed Learning Theory. Autonomous learning theory refers to the behavior of students as the main body of learning. They can act independently without being restricted by others or influenced by the outside world, and complete their studies by reading, listening, experiment, reading and experiment. In the 1980s, Henri Holebrought the idea of active education into foreign language teaching [14]. Since the rise of the idea of autonomous learning, many experts have carried out in-depth research on it in different aspects. Therefore, the autonomous learning strategies in Oxford University mainly include perception strategy, memory strategy, compensation strategy, metacognitive strategy, emotional strategy and social strategy. Although scholars have different views, scholars generally believe that autonomous learning must take learners as the core, and learners should build systems through different behaviors and complete planning, autonomous management, autonomous adjustment, autonomous detection, autonomous responsive and self-evaluation in the whole perceived environment [15], as shown in Figure 2.

2.2. The Characteristics of the Multi-Interactive Teaching Mode. The multiple interactive teaching mode is an organic system composed of the relationship between the educational environment and the teaching subject, and is an innovative teaching method that conforms to the modern educational reform and development trend. There is a big difference between the multi-interactive teaching mode and the traditional teaching mode, as shown in Table 1.
The rapid development of modern computer technology has provided the necessary conditions for the realization of synchronous and asynchronous communication between teachers and students in schools, and thus computer communication to a real degree can be realized [16]. As shown in Figure 3, an integrated interactive teaching platform can be built through the network. This process involves communication between teachers in the classroom, teachers after class, students and schools, including learning media and teaching resources. This process continues including teacher-student interactions in the classroom, teacher-student interactions outside the classroom, and student interactions with learning media and learning materials [17].

Various mobile APPs for practicing vocabulary, reading, listening, and speaking can help students increase their interest in English learning and further tap their English learning potential, as shown in Figure 4.

3. Methodology

The construction of the university English classroom teaching model requires an effective understanding and analysis of the relationship between the various constituent elements, and if you want to do this work well, you must collect, summarize, and integrate all kinds of data and data. On the basis of big data, the collection, induction, and collation of various data and materials can be completed through the following ways, namely, collecting all data related to teaching and learning in and out of the classroom, as well as data related to practice, in addition, collecting online data related to English teaching, but also collecting data related to teaching systems and multimedia, and integrating these data and information at the same time.

In order to solve the two issues of “what impact does the multi-dimensional interactive teaching mode have on students’ English learning” and “what attitude do students have towards this teaching mode”, the project selects two teaching groups with similar disciplines in one college and one school. Figure 5 shows the specific content of the learning and memory information processing model [18]. After collecting various data and integrating and summarizing at the same time, it is necessary to analyze the various factors involved in the construction of the English ecological classroom teaching mode with the help of the analysis function of the big data technology itself so as to ensure that

| Table 1: Comparison of traditional teaching mode and multi-interactive teaching mode. |
|-----------------------------------------------|-----------------------------------------------|
| Teacher role | Imparter of knowledge | Knowledge inspirer |
| Student role | Passive recipient of knowledge | Interactive event participants |
| Teaching method | Lecture-based | Teachers design interactive topics, learn |
| Class interaction | There is a small amount of teacher-student interaction in the classroom | Students participate in the interaction |
| Interactive way | Classroom lectures | Multiple interactive teaching mode |
| Interactive medium | Less used | Network media, such as QQ, WeChat, online learning platforms, etc. |
| Feedback | Mainly assignments or quizzes | Conduct communication and feedback at any time |
| Evaluation method | Summative evaluation is the main method, ignoring the personality differences of students | Give priority to formative evaluation, and focus on diversified evaluation |
| Advantage | Systematic explanation of knowledge, easy for teachers to control the classroom | Flexible and diverse teaching forms, students are highly motivated and involved |
| Limitation | Low student engagement | Teacher workload increases |
the factors can establish a good relationship with each other. As the experimental class (46 students) and the control class (44 students), after completing the last assessment at the beginning of the grade, they carried out a one semester-multimedia interactive course practice with the practice group [19]. The teachers of the experimental class guide the students to make learning plans and record the specific contents and processes of learning in the form of learning files. At the same time, the teacher divided the students into three to four teaching groups, and each group was responsible for teaching demonstration and dramaperformance. Students must work, consult materials, do PowerPoint and complete task rehearsal before teaching. In the activities of communicating and working with the organization personnel, the learners not only improve their communication skills, but also enhance their English level. Teachers communicate and interact with them continuously through our school’s learningsystem, QQ, wechat and other Internet development tools, and guide them to do their homework, formulate plans, master goals and time, etc. at the same time, they enable them to achieve independent learning through some mobile phone software after class, and then register their learning progress on the archive [20].

4. Result Analysis and Discussion

4.1. Data Collection and Analysis. The specific operational content of the collection and induction of various types of teaching materials and information mainly includes the following aspects: (1) In the teaching after class, it is necessary to fully understand the specific situation of the students taught by the teaching teacher and the teaching content, methods and methods, student situation, online English teaching, and student participation; (2) in the learning and practice activities after class, the students' written and oral communication ability, the ability to communicate with others in English, the ability to read and write in independent English, and so on; and (3) in the English teaching system, in multimedia data and online data, it is necessary to understand the university English learning materials, English teaching system, the latest micro-lessons, audio and video, English audio materials, and so on. In general, in the process of data collection and collation, we must ensure the immediacy, accuracy, and comprehensiveness of data collection to the greatest extent, which are the prerequisites for realizing the construction of the university English ecological teaching model. Through a week of classroom hows that the posttest scores of bo experiments, we have conducted the second assessment on the students in the experimental class and the control group, and passed spss19. Hows that the posttest scores of bo Table 2 shows the results of the two classes. There was no significant difference
in English scores in the initial test (p-value greater than 0.05); the standard error deviations of the means are 1.56630 and 1.32057, respectively. However, according to Table 3 the scores of the students in the experimental class and the control class after the test are higher than those before the test. However, from the independent sample t-test analysis of the total scores of the two classes after the test, although there is no statistically significant difference, the p-value has decreased, which also shows that the difference between them is increasing. Perhaps because the experiment lasted only one academic year and the duration was too short, it could not show too obvious difference in performance. However, we can still see that the performance of the experimental class is much better than that of the control class.

4.2. Questionnaire and Interview Results. This study also carried out a simple social survey on the students of the education experimental class to understand the impact of multiple interaction modes on students’ learning, and selected some students for interviews to understand students’ understanding and attitude towards these modes. The results are as follows.

First, the impact of multiple interaction modes on students’ autonomous learning ability: about 67% of students feel that they can establish academic goals and learning plans under the guidance of teachers; Seventy three percent of the students thought that they could better use the online teaching platform and mobile devices such as smart phones or laptops to complete independent learning after class; And 68% of the students thought they could better cooperate with the members of the organization.

Second, their understanding and views on the multi-language interactive teaching model: 84% of the students believe that this teaching model can enhance students’ English reading comprehension and can be maintained for a long time; And about 12% of the students believe that this teaching mode adds extra time to their activities. Academic burden may not be suitable for students; Four percent of the students think it doesn’t matter which teaching method they adopt.

4.3. Credit System Questionnaire Collection and Data Analysis. The experimental subjects were 109 non-English majors: 1 experimental class with 55 students and 1 control class with 54 students. - The two classes adopted the full credit system. Although they came from different disciplines, the averages of the first test were 69.06 and 68.12 respectively. The independent sample t-test results show that there is no significant difference in the average English scores between the two classes (t = 6.49, p > 0.05). The mean scores of the final test were 77.76 and 72.92, respectively, with a significant difference (p < 0.05).

4.4. Credit System Research Results

4.4.1. Description of Some Questionnaire Results

(1) Recognition of the teaching model of "micro-class + flipped classroom": 72.73% like it; 27.27% dislike it. Some students who choose not to like it think that they have increased the amount of learning and have too high requirements for autonomy.

(2) Regarding the improvement of self-ability under this teaching mode, most people think that the most important thing is the ability to search for materials (73.33%), that is, information literacy; Secondly, the ability to use English comprehensively (70.91%), the ability to produce PPTs (66.67%), the ability to cooperate (60%), the ability to make public speeches (56.36%) and so on, in order to meet the research expectations, and at the same time, the ability to use information, the ability to use English comprehensively and the ability to output resources independently.

4.4.2. Description of the Interview Results. In the interview, the students of the experimental group gave positive comments, saying that the English class was flexible, interesting, simple and effective, and fully mobilized the students’ interest and initiative in learning. The students in the control group thought that the class was boring, monotonous, and the class was too large.

4.4.3. Classroom Observation Description. The comprehensive application level of the control group is better than that of the control group, which mainly reflects the use scale, frequency and quality in the review process. After the end of the semester, the teachers of the class collected and counted their usual classroom activities and information recorded in the online review system. The results
showed that in the control group, everyone participated in the classroom teaching activities 16 times, and basically every lesson content had the opportunity to be published once in the group or school; In online reading, each person reads more than 30 times, repeats more than 32 times, and extracts more than 20 times. In the same academic year, each person in the control group participated in classroom teaching activities 1.5 times, with a single content type, mainly to solve the problems of text vocabulary, after-school exercises and reading in school textbooks.

4.5. Suggestion

4.5.1. The Positive Role of Multiple Interactive Teaching Models. Today is an era of rapid development of information and constant updating of science and technology. Therefore, machine learning knowledge can neither meet the needs of learners for knowledge nor adapt to the fierce international competition in the future. Autonomous Learning and lifelong learning are both related to the sustainable development of learners and the ability of continuous self-improvement. The multi-dimensional interactive teaching mode enables students to understand various teaching methods, especially metacognitive strategies and social methods, through deep-seated and multi-dimensional communication in class and after class, online and offline, so as to improve students' active learning ability.

4.5.2. Challenges Brought by Multiple Interactive Teaching Models. If the multi teacher interaction mode is not properly used, it will produce a multiplier effect of 0.5. Therefore, teacher cooperation is required to be better applied.

First of all, there are higher requirements for teachers. We need to screen more network resources, optimize the curriculum, and set up interactive topics and exchange projects according to the characteristics and acceptance of different grades. In addition, even in extra-curricular life, teachers must use face-to-face teaching or online Q & A to constantly monitor and help children's review and academic progress.

Otherwise, it is easy for students to be in a state of laissez-faire.

Second, there is more need for students' self-learning consciousness. Some students have a weak foundation and may have many difficulties in autonomous learning activities. Therefore, their extracurricular interactive learning requires them to further enhance their self-monitoring ability to understand various learning strategies and reading methods and cooperate with each other.

Third, there are higher requirements for the software and hardware construction of the campus. Teachers' interactive teaching and students' autonomous learning also need to have relatively complete educational software and hardware equipment on campus, including campus autonomous learning system, autonomous learning classroom and other educational facilities. In particular, the popularity of mobile phones requires a complete Internet signal on campus.

The fourth is to further improve the diversified assessment system. In the multi interactive teaching method, the result evaluation method that only focuses on teaching results and neglects the learning process is no longer suitable, so the evaluation means must be more perfect. The evaluation subject and evaluation means should also be diversified to reflect the development process of teaching results and communication process, so as to realize active learning for learners.

4.5.3. Implications of the Credit System. Based on the comprehensive consideration of the psychological characteristics of College English Teaching under the credit system, the following suggestions are put forward to further promote the reform of College English Teaching:

(1) Adjust the subject setting and further optimize the teaching materials. The new teaching score system reform will be implemented in an all-round way to promote the further adjustment of school teaching and the further optimization of teaching materials. The school-hour humanities elective course is divided into seven compulsory courses: "translation and writing, cross-cultural communication, English newspaper selection, high-end English audio-visual, English professional film and television appreciation, Chinese local culture English professional learning guide and high-end oral English". These seven compulsory courses are also called "comprehensive application compulsory courses for College English Majors". They are built according to the characteristics of local culture and economic development, Strive to cultivate the overall application skills of international communication through English Majors in the period of rapid social and economic development. In 2009, the comprehensive application course for English Majors in Colleges and universities was listed as the "national excellent teaching material". The compulsory courses of general higher education under the credit system in Colleges and universities take "College English Majors" (1 to 4) as the classroom teaching object, which conforms to the "basic provisions" in the professional standards of the National Academic Affairs Office. If this positioning was feasible two years ago, the current practice proves that it has not reached the best state. As only 15% of the students can participate in the "College English major application elective course", the rest can only study the "College English major" (1-4). Obviously, these situations can not meet the characteristics of the information age and the needs of learners. "College English application course" must be offered to learners in an all-round way. In order to improve the teaching effect, colleges and universities may issue corresponding regulations. In addition, strong characteristic application projects can be set up to meet the needs of learners in various disciplines and stages.

(2) Innovating teaching mode and strengthening classroom teaching for a long time, English
Teaching in Chinese colleges and universities has always implemented the teaching mode of teaching based on teaching. Although we advocate interactive teaching mode, due to the size of the class, to the real place. With the rapid development of computer, a new teaching method is proposed for computer-aided education. When the credit system is implemented, on the premise of small class hours and large school scale, teachers must adopt modern teaching mode and actively explore and innovate traditional teaching mode. Multimedia means, vivid, vivid and intuitive. Thenetwork can not only present rich, novel, real-time and colorful educational resources, but also contact teachers and schools, students and students, Chinese and foreigners. This lively, interesting and lively teaching mode and teaching method plays a vital role in cultivating students' interest in learning, enlightening learners' minds, broadening learners' horizons and enhancing teaching effects.

(3) To improve the quality of teachers and pay attention to the education art creditsystem, the marginal problems of English teaching reform in schools are not only for schools, but also for all teachers. Only by strictly requiring oneself to master and change one step ahead of the students, and becoming a pioneer and guide in the forefront of English teaching reform, can we carry out more effective teaching reform in the interaction between teachers and students. First, improve the concept of teaching reform. According to the provisions of the Ministry of education on the teaching requirements of English courses in ordinary colleges and universities and the needs of the reform and development plan of higher education for the socialist legal construction in China, and the requirements of the national medium and long-term education reform and development plan, and focus on the goal of quality education and training high-level English talents. Establish correct College English teaching concepts and promote the development of College English teaching reform. Second, we should improve teachers' various qualities and levels. The quality and level of teachers is a process determined by many factors. If students have excellent ideological and moral cultivation, they must pay attention to carrying forward the main melody of Chinese language and culture education, and have the ability and consciousness to identify excellent civilization and backward culture. Basic knowledge, technical ability and psychological quality related to the characteristics of English teaching; Strengthen the ability of information retrieval, processing and evaluation, and good scientific research and innovation ability. The quality and ability of English teachers in a school directly affect whether the teaching reform can be carried out smoothly. Third, attach importance to the heart of education. Such as the art of cultivating students' interest in learning, the art of cultivating students' creative spirit and innovative ability, the art of improving teachers' classroom effectiveness, and the art of improving students' practical and cross-cultural communication ability.

(4) It is a complex and rich project to reform the teaching management mode and promote the mechanism of teaching. The reform of College English teaching has provided many new problems to the teaching management, which requires scientific and reasonable content setting and mechanism research in many important subjects of teaching management. First, it has formed a dynamic mechanism for the survival of the fittest. The competitive mechanism of students' learning should be included in the dynamic control of the curriculum, instead of requiring them to take the examination for life after entering the school. Instead of judging heroes by their achievements or setbacks, we should pay more attention to learners' continuous learning. Improve innovation ability. The second is to build a learner-oriented teaching organization system that is conducive to cultivating students' learning interests, such as various English academic interest groups, network teacher communication systems, and student participation in community practice systems. The third is to build a teacher training management system, that is, a management system for improving professional ability through training, a scientific research training management system, a training management system for improving quality through the use of computer network information technology, and a management system for studying abroad. The fourth is to build a teacher performance evaluation system. Through research and application of statistical technology, it can comprehensively and objectively test learners' English effect, assess teachers' teaching methods, and assess the management of relevant units. It must be noted that the system innovation and mechanism innovation of English teaching management in Colleges and universities are a whole, covering all important aspects of colleges and universities, including educational ideas, teaching processes, teaching models. A detailed explanation will be given.

5. Conclusion

With the vigorous development of the Internet, modern information technology has also been more and more widely used in English Teaching in Chinese colleges and universities. New teaching methods should be based on modern information technology, especially Internet information technology, and improve teachers' initiative by breaking through conventional classroom methods, but deepen the reform of college English teaching credit system under the important premise is to grasp the needs of students. The comparative analysis of the
characteristics of the interactive teaching mode and the traditional teaching mode presents the problems of the traditional English teaching and the new result. This study has great significance to the reconstruction of the network teaching environment and the English teaching mode under the credit system.

**Data Availability**

The labeled dataset used to support the findings of this study is available from the corresponding author upon request.

**Conflicts of Interest**

The authors declare that there are no conflicts of interest regarding the publication of this paper.

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