Research on the Satisfaction of Hybrid College English Teaching Based on Artificial Intelligence Rain Classroom

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Abstract. With the rapid development of Artificial Intelligence (hereinafter referred to as AI), TRC has become a popular teaching tool. Through the rain classroom (hereinafter referred to as TRC) mixed teaching, we can strengthen the quality and feasibility of College English teaching (hereinafter referred to as CET). TRC is a lightweight intelligent teaching tool, which can build a synchronous dual channel between teachers and students (hereinafter referred to as TAS). Through the rain class, we can analyze the asynchronous teaching of CET, which will achieve high-quality English teaching before, during and after class. Through the construction of hybrid CET mode based on TRC, this paper realizes the English teaching before, during, after class and evaluation. Compared with traditional teaching, this paper analyzes the students' satisfaction with rain class. Finally, this paper puts forward some suggestions, which can better improve students' enthusiasm, autonomy and satisfaction.

Keywords: AI, TRC, English Teaching, Satisfaction

1. Introduction

Under the mobile Internet, colleges must make efficient use of IT to assist teaching, which is the core of CET reform [1]. With the development of education informatization, we must carry out Blended teaching (hereinafter referred to as BT), which is the trend of CET in the future. College English is a comprehensive course of language and culture, which focuses on the cultivation of students' comprehensive abilities of listening, speaking, reading, writing and translation. Therefore, colleges need to carry out comprehensive teaching design before class, in class and after class [2-4]. In this way, colleges can take into account the cohesion and practice of other English skills courses. Through the rain class, teachers can push the prepared preview courseware to the class, which can be targeted to grasp the students' Preview progress, score and problem feedback. Through the rain class, teachers can obtain students' performance statistics, which can improve the interaction and divergence of the classroom [5-6]. At the same time, teachers can mark students' homework online, which realizes the effective communication between TAS after class. According to the homework analysis data, teachers can effectively reflect on teaching, which will be more scientific and reasonable to carry out teaching [7-8].
2. Design of hybrid teaching mode based on AI TRC

2.1. BT

BT is a teaching method that combines online education with offline traditional teaching, which mainly emphasizes student-centered teaching. By giving full play to students' learning subject, colleges can improve students' enthusiasm, initiative and creativity. With the help of online education resources, teachers can achieve more effective learning effect. Based on constructivism, we need to improve "situation" and "collaborative learning", which plays an important role in the construction of students' knowledge. The hybrid teaching based on TRC can provide students with vivid and rich learning situations. Through the whole process of interaction between TAS, colleges can create a collaborative learning environment, which can help to realize the construction of new knowledge by learning groups. Through hybrid teaching, colleges can make full use of the advantages of online and offline teaching, which can expand the learning time in the supervised learning. Through mixed teaching, colleges can extend the depth and breadth of knowledge, which is a kind of "extremely optimized" education mode.

2.2. Rain class

TRC is a new hybrid teaching software developed by Tsinghua University and MOOC platform "Xuetang online". TRC is a platform integrating various teaching resources, such as PPT, wechat, traditional teaching, online learning, etc. Through the creation of virtual class, rain class can achieve a variety of classroom functions, such as push courseware, push homework, classroom test, barrage, data synchronization, etc., which will achieve a comprehensive interaction between TAS of data teaching. Therefore, the multimedia classroom in Colleges should install TRC software, which will improve the application of AI software in Colleges. Through TRC, CET can really enter the "big data era".

2.3. Design of mixed teaching mode based on rain class

The new hybrid teaching represented by rain class has more advantages, which is a teaching mode to close the relationship between TAS. The hybrid teaching mode based on TRC designed in this paper has four basic links, namely, identifying learning needs, formulating learning plans and evaluation strategies, developing learning contents and implementing plans. In the BT in Colleges, learners need to have a positive and effective learning environment, which will better stimulate the enthusiasm and creativity of students. Therefore, this paper designs a process mode of Hybrid Teaching Design Based on TRC teaching auxiliary platform, as shown in Figure 1.
3. Analysis on the satisfaction of blended CET based on TRC
This paper conducted a questionnaire survey on students in a university. A total of 400 questionnaires were distributed and 386 valid questionnaires were collected. The effective rate reached 96.5%.

3.1. Stimulate interest in English learning
Through the rain class, we can carry out the "three-stage mode" in the class of mixed teaching. Through rain class, we stimulate students' interest in learning English, as shown in Figure 2. According to the survey results, the main problem is Stimulate interest in English learning, accounting for 76.4%. The second is Enhancing classroom learning atmosphere, accounting for 67.9%.

Figure 1. Based on the rain teaching platform.

Figure 2. Stimulate interest in English learning
3.2. Improve the consciousness of serving students

Through rain class, colleges improve the awareness of serving students, as shown in Figure 3. According to the survey results, the main problem is improving the consciousness of serving students, accounting for 73.4%. The second is Improve the pertinence of training objectives, accounting for 64.0%.

![Figure 3. Improve the consciousness of serving students.](image)

4. Suggestions on CET satisfaction

4.1. Suggestions for students

Students' characteristics have a significant impact on satisfaction. Therefore, students need to actively participate in TRC teaching, which will directly affect the quality of learning results. By improving the participation of students, we can affect the level of their satisfaction. Multimedia learning emphasizes the initiative of learners, which requires the important conditions of meaningful learning.

4.2. Suggestions for teachers

In TRC teaching, the teacher is a very key factor. First, teachers should have a full understanding and positive attitude towards TRC teaching. The real teaching theory is the cultivation of self-consciousness, which is a method to improve people's quality. Teachers need to understand the most important role of TRC teaching. This will improve the quality of our classroom teaching and learning. Teachers need to improve the ability of media classroom teaching, such as teaching design ability, information literacy, expression ability and so on. Compared with traditional teaching, teachers should guide students' participation and teaching interaction artistically, which can give full play to a subjective initiative.

4.3. Suggestions for schools

TRC teaching has become a common teaching mode in Colleges. Therefore, colleges should pay enough attention to CET. First of all, the school should constantly improve TRC teaching environment, which can make teachers take the initiative, convenient use of multimedia teaching. Therefore, the school should strengthen the construction of multimedia teaching environment, which will improve the quality and efficiency of multimedia equipment maintenance. The school should continue to improve the lighting effect and sound effect of multimedia classroom, which will promote its better use of TRC teaching. Teachers play an important role in TRC teaching. Only by providing high-quality, TRC teaching can provide a rich and colorful classroom environment, which will maintain good communication. Through the rain class, we can fully mobilize the enthusiasm of students.
5. Conclusion
Based on TRC College English mixed teaching mode, we can break through the space-time constraints, which will promote students' personalized learning. By increasing the communication density between TAS, we can optimize the sharing of teaching resources, which will realize the scientific management of the classroom. Therefore, schools should strive to create a good environment for multimedia teaching, which will mobilize the majority of teachers to use TRC teaching more enthusiasm and initiative.

References
[1] Ding Cuihong. Research on multi-dimensional interactive SPOC hybrid teaching mode [J]. Modern educational technology. 2017 (07): 102-108.
[2] Hu jiehui, Li Jingnan. Constructing a new CET model based on mobile language learning [J]. Research on college foreign language teaching, 2018 (0): 127-138.
[3] Huang Yanfen, Lu Haifeng. Design and development of mobile learning network course based on TRC [J]. Software, 2017, 38 (2): 56-60.
[4] Jin Fan, Lin Yan. Action research on flipped classroom of College English with TPACK concept [J]. Journal of Ezhou University, 2019 (1): 85-87.
[5] Li Bao, Zhang Wenlan. Model research on Influencing Factors of learning satisfaction in blended learning. Journal of distance education. 2016 (01): 69-75.
[6] Mou Zhansheng, Dong Bojie. Research on blended learning mode based on MOOC -- Taking coursera platform as an example [J]. Modern education technology. 2014 (05): 73-80.
[7] Wang Shuaiguo. TRC: a smart teaching tool under the background of mobile Internet and big data [J]. Modern education technology. 2016 (06): 26-32.
[8] Yang Fang, Zhang huanrui, Zhang Wenxia. A preliminary study on Hybrid Teaching Based on MOOC and TRC [J]. Modern education technology. 2017 (05): 33-39.