The Innovation Research and Practice of the Hybrid Teaching Mode in Colleges and Universities Based on Computer Technology

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Abstract. With the rapid development of science and technology, online education resources have become an important way of education. Therefore, we must combine computer technology and give full play to high-quality open educational resources, which will guide us to innovate the classroom teaching mode of colleges and universities. Through hybrid teaching, colleges and universities can improve the quality of classroom teaching. Through the research of the new hybrid teaching mode, students' interest in learning can be stimulated, thereby improving students' learning effects. First, this article analyzes the concept and advantages of blended teaching. Then, the shortcomings of hybrid teaching practice are put forward. Finally, some suggestions were made[1-2].

Keywords: Innovative Research and Practice, Hybrid Teaching Mode, Traditional Teaching, Computer Technology

1. Introduction
The traditional teaching mode is a kind of teaching mode mainly based on Teachers' explanation in class, which is a teacher centered closed mode. Traditional teaching can guarantee the integrity, coherence and systematization of teaching content, which will maximize the efficiency of classroom. However, every teacher will deal with a large number of students, the traditional teaching model is difficult to take into account every student, which is very difficult to achieve the personalized design of teaching. In recent years, flipped classroom, micro class, Mu class and other teaching modes have become the key direction of university reform. Facing the comprehensive online education resources, colleges and universities must adopt the Hybrid teaching mode, which will better improve the teaching effect[3-4]. Compared with the traditional teaching, the hybrid teaching mode integrates the traditional teaching, flipped classroom, micro class, MOOC class and other teaching modes, which is a subversive change. Therefore, both teachers and students will face great challenges[5-6].

2. Hybrid teaching concept and its advantages
2.1. Hybrid teaching concept
Professor Curtis bunker defined "blended learning" as a combination of face-to-face learning and
online learning in the hybrid learning manual. He Kekang is the first person to study Hybrid Teaching in China. He believes that hybrid teaching combines the advantages of traditional teaching and e-learning. Through the Hybrid teaching mode, teachers can supervise and guide students' active learning. Blended learning is an organic combination of traditional learning and online learning. Through the completion of teaching objectives, the hybrid teaching mode improves and reorganizes all teaching resources. The views of scholars in the field of comprehensive education on hybrid teaching can be roughly divided into the following three categories. The first is the mixture of traditional teaching methods and online teaching methods. The second is the mixture of teaching media and tools in online learning. The third is the mixture of teaching methods and learning techniques.

2.2. Advantages of hybrid teaching
First, hybrid teaching breaks through the limitations of traditional teaching, which subverts the traditional teaching concept. The teacher centered teaching method can no longer meet the needs of current learning. Under the Hybrid teaching mode, the roles of teachers and students have changed. The teacher will change from knowledge transmitter to guide. However, students will also change from the receiver of knowledge to the receiver. With the improvement of students' learning enthusiasm, students can make their own learning plan and schedule in the pre class stage.

Second, hybrid teaching improves the teaching effect, which can achieve the three-dimensional goal well. Through hybrid teaching, students can quickly master basic knowledge and skills, which will greatly improve their practical ability. Through hybrid teaching, students will acquire learning methods in the process of learning, which will improve their ability of autonomous learning in the future. Through the teacher's oral and personal teaching, the teacher can set a learning example for students, which will greatly cultivate many abilities of students, such as self-study ability, cooperation and communication ability, team cooperation ability, lifelong learning ability, etc.

3. Shortcomings of Hybrid teaching practice
This paper is based on the field survey. 1000 formal questionnaires were sent out, 994 questionnaires were recovered, 981 effective questionnaires were sent out, and the effective rate was 98.1%.

3.1. Unsystematic platform learning resources

36.7% Very agree
47.8% Agree
15.5% Disagree

Figure 1. Unsystematic platform learning resources.
Colleges and universities have online learning platforms such as flipped classroom and micro class. Although the functions are relatively complete, the learning resources are not systematic. Although the online platform has explained every knowledge point, it is not systematic for the related application of different knowledge points, which can’t perfectly connect different knowledge points. According to the survey results, 36.7% of the students think the teaching is not systematic, 47.8% of the students think it doesn't matter, the details are shown in Figure 1.
3.2. Insufficient teachers

Hybrid teaching is a kind of teaching method that integrates multiple teaching methods, which requires teachers to undertake the construction of online learning resources such as micro class, flipped classroom and MOOC. Therefore, teachers will take on more tasks and need higher professional quality. According to the survey results, the main problem is poor teaching level of Teachers, accounting for 60.7%. The second is unreasonable curriculum, accounting for 51.3%. Details are shown in Figure 2.

![Figure 2. Insufficient teachers.](image)

4. Suggestions on Hybrid teaching mode

4.1. Pre class preparation module

First of all, according to the training plan, teachers should make scientific and reasonable teaching objectives, which will improve teachers' analytical teaching ability. Only by mastering the learning basis of students can college teachers teach students in accordance with their aptitude. Teachers should design teaching and upload teaching resources to the curriculum construction platform, which includes multimedia courseware, micro video, related network links, etc. Through the platform, students can learn in advance. At the same time, students can ask questions and discuss online on the platform, which will realize the internalization of knowledge.

4.2. Classroom teaching module

Flipped classroom, micro class and so on have subverted the traditional learning mode of teaching, which is not the learning mode of "teachers' lecture in class + students' homework in class". Teachers' role in the classroom is mainly to guide, answer questions, solve doubts and deepen, which will further promote the internalization of students' knowledge. In class, teachers can focus on the common problems. At the same time, the teacher can give individual guidance to the individual who does not understand. The Hybrid teaching mode will change from "teaching knowledge first" to "creative problem solving first" in the new classroom teaching.

4.3. Template optimization after class

At the end of each class, teachers should reflect and summarize the class in time. Through the key summary, the teacher can complete many teaching methods, such as whether the curriculum design is reasonable, whether the curriculum resources can meet the students' learning needs, and how the students' learning effect is, which can accumulate experience for the future Hybrid teaching classroom.

5. Conclusion

At present, hybrid teaching is an important research and development trend of domestic teaching
methods, which combines the comprehensive advantages of traditional teaching and online teaching. Compared with traditional closed classroom teaching, hybrid teaching can enhance the active learning ability of students, interest and comprehensive quality, which will better cultivate students' ability of knowledge system self-construction. By blending teaching and combining computer technology, colleges and universities will improve the cooperation and communication skills of students. The hybrid teaching mode improves the teaching effect, which will improve the participation and enthusiasm of teachers and students. Through the overall real-time management of academic affairs to provide support, colleges and universities will gradually build this kind of teaching mode, which is an important trend in university teaching in the future.

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