

Analysis of the Application of Two-way Integration Model of Online and Offline in Teaching Pharmacology in Higher Education

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Abstract: The continuous development of China's social economy has led to the accelerating speed of teaching changes in schools, and from the current state, the informatization of teaching methods and the diversification of teaching methods have been an important way of educational reform in major institutions. In this paper, we analyze the application of online and offline two-way integration in the teaching of pharmacology in higher education.

Keywords: Online and Offline; Two-way Integration; Higher Education; Pharmacology Teaching

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1. Introduction

With the deepening of China's education reform, higher vocational colleges have become a major area of China's higher education reform. As the main body of higher education, higher vocational colleges are responsible for providing excellent talents for the society. The goal of teaching reform is to find new and effective teaching methods. By analyzing the advantages and disadvantages of this new teaching method in the process of higher vocational pharmacology education and providing rationalized application strategies, we will make suggestions for course education and student training.

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2. The Connotation of Integrated Teaching in both Online and Offline Directions

The organic combination of online and offline is a new type of modern education. Especially in online teaching, teachers use computer and network technology, using various ways such as big data and cloud platform, to build a network teaching platform, or organize it by themselves or collect materials on the network. They upload excellent courses, mind maps and micro-lessons to the Internet and instruct students to teach online through the online platform. Focus on basic training and improve technical skills. Offline teaching, on the other hand, is for teachers to explain difficult points to students who get stuck after independent study. Therefore, the interactive teaching between online and offline is to show the traditional classroom teaching content to students through the network, while turning the original knowledge that only teaches the basics into the answering of questions in class, making the time in class more important. It improves the value of education and is in line with the concept of education reform.

3. Online and Offline Two-way Integration Teaching Mode Advantages

(1) It helps to improve the design system of pharmacology teaching curriculum in higher education

From the perspective of China's traditional curriculum system of senior pharmacology majors, although the variety of pharmacology majors has gradually increased with the reform of the national education system in recent years, in practice, due to the constraints of traditional concepts, senior teachers of pharmacology majors are still in a duck-filling state, and it is difficult to change their teaching habits in a short time. Under such a teaching mode, although the theoretical foundation of students can be greatly improved, it is also necessary to strengthen the training of theoretical knowledge and at the same time to cultivate talents with practical skills. In the two-way integration of online and offline teaching, teachers have to change their education concept and realize the communication between teachers and students through the online platform. Teachers also break with the original teaching style, through self-learning or independent choice, to give full play to students' learning potential, promote the development of their thinking and learning ability, and achieve their own development.

(2) It can promote the innovation of pharmacology schooling system

Professional pharmacology training produces excellent talents to serve the society, and the quality of excellent talents has an important role in the development of the whole industry. Therefore, as a teacher of pharmacology, it is important to

seek new methods and skills in teaching reform to enrich the entire pharmacology teaching system. In this way, not only the modern generation will benefit, but also future generations. The introduction of a two-way integration of online and offline teaching modes has given a new life to the existing traditional classroom teaching methods, thus improving teachers' classroom skills and overall educational management more effectively. Through the integration of online and offline, we can see that in this model, there are no constraints of time, space and environment, which makes the relationship between students and students closer, thus allowing teachers to learn at any time and any place, which is also a brand new learning system.

(3) Improving students' independent learning ability

Through the connotation of online and offline two-way integration mode, it carries a large amount of online teaching, involving professional skills training, knowledge teaching, and the application of basic knowledge. And traditional online course teaching can only be one aspect, through this mode, students can get more online learning platform. Students use their spare time to learn new knowledge independently, bring problems into the classroom, motivate students to learn, and teach online for certain difficulties. In the whole process of learning, students are the main ones, and the teacher only guides and solves the problems, which greatly enhances students' autonomy.

4. The Application of Online and Offline Two-way Integration Teaching Mode in the Teaching of Pharmacology in Higher Education

(1) Diversifying the two-way integration platform between online and offline

The combination of online and offline extends classroom instruction. Therefore, in traditional teaching methods, teachers can only enable students to gain more knowledge in a limited classroom by minimizing the amount of time spent on divergent questions. Based on this theory, teachers can address and summarize questions related to the course content during online lectures, and propose different learning objectives for students at different levels in order to facilitate the development of targeted and personalized lessons. In order to achieve the purpose of teaching according to the material, modern information technology should be used to enhance the effectiveness of the classroom in the implementation of two-way teaching. Teachers can organize the entire pharmacology textbook and prepare a thinking map for candidates to refer to during the exam. At the same time, the classroom should also focus on the use of multimedia methods to make students' learning richer and more diverse.

(2) Strengthening the two-way integration mechanism between online and offline, highlighting the advantages of new media

From the current situation, the two-way integration of online and offline is a new teaching mode, whose biggest advantage is that it can break through the limitations of time, space and environment. The source of knowledge is not only through books, videos, animations, pictures and graphics on online platforms, but can better enhance students' interest in learning. Of course, this is not an easy task and it can't be done by one person, so it needs a team to improve the two-way integration mechanism between online and offline. First, it is necessary to train a group of dedicated teachers who can establish a professional research team with a clear division of labor. Second, it is necessary to determine specific teaching objectives and target teaching according to different students; third, it is important to note that students' enthusiasm for learning cannot be mobilized through the Internet. When learning content online, we should pay attention to the depth and breadth of learning, we should reasonably use the length of the video, and other learning materials, and we should fully mobilize students' enthusiasm for learning and students' self-learning ability. Fourth, in offline teaching, the construction of classroom interaction should be added, and students should be instructed according to the problems and difficulties they encounter, instead of being dominated by themselves and ignoring students' feelings. In offline teaching, different problems can be explained for different students. This is a way to encourage good students to show themselves and thus increase their self-confidence. In conclusion, the two-way integration of online and offline teaching system must be a mutual collaboration between teachers and students without any slackness. In this process, it is important to make full use of online and offline multimedia resources to create lively and interesting classes both online and offline.

(3) Improving classroom learning efficiency and developing students' learning ability

The combination of online and offline makes the classroom divided into two parts, in order to achieve the purpose of teaching, in order to improve the effectiveness of teaching and learning efficiency. First, online teaching. Online teaching materials are the core content of online education. In order to enable students to grasp the most important information in the shortest possible time, teachers should focus on the use of online resources. With the gradual promotion of MOOC and micro-lesson, the quality of online education resources is also uneven, so teachers should have a clear understanding of students' abilities and shortcomings. Second, offline teaching. With the combination of online and offline, the classroom has become the main place for children. How to overcome the difficulties faced by students and improve their professional skills within the limited time is a question that every teacher should think about. When teaching in the online classroom, teachers should focus on specific problems. It is also

important to be aware of the reactions of more students to this course in order to better understand the problems that arise during the implementation of this teaching model.

5. Conclusion

In conclusion, applying the method of integrating online and offline two-way teaching to the teaching of pharmacology in higher education will help improve the teaching effect and deepen the teaching reform. As a pharmacology teacher, it is our duty and obligation to effectively implement this new teaching mode in our daily teaching. Of course, we should not copy it, but make full use of its advantages according to local conditions.

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