

Research on the Development Strategy of Physiology MOOC Teaching Resources

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Abstract: "Teacher, evangelism and confession" is also from Han Yu's "Speaker", which vividly explains the sacred mission of a teacher. Teachers have always played an important role in the inheritance of human knowledge, and the physiology offered by medical colleges is a science that studies the normal function of the human body and its various components, and is one of the main courses of higher medical education. This paper will briefly summarize the significance of the MOOC, analyze the current development of physiology curriculum teaching, and explore the development direction of physiology teaching innovation.

1. Introduction

With the rapid development of the network information age, more and more traditional industries have ushered in earth-shaking changes. In order to comply with the pace of information innovation and improve the efficiency of teaching, the teaching of physiology in universities has also ushered in unprecedented challenges. It is able to make a big impact in the background of the MOOC, which has become the goal pursued by many educators in the new era [1].

2. The Meaning of the MOOC Class

MOOC is the abbreviation of English Massive Open Online Course. It means large-scale, open online course. It is a new type of education model that relies on computer network as a carrier. It is accompanied by the development of network information. The product of birth, it is characterized by timeliness, extensiveness, high efficiency, etc. Students can choose their favorite knowledge of various subjects to conduct online learning anytime and anywhere, or they can selectively skip the content they have learned. It completely subverts. The traditional blackboard chalk education model [2].

3. The Development Status of Physiology Teaching

Since the reform and opening up, China's economy has shown rapid development. All walks of life have shown a thriving trend. The education field has made remarkable progress. We have always adhered to the fundamental concept of education and rejuvenation, and look around the world's many developed countries. China's education level is not in a leading position, and the development of education has become the basic guarantee for catching up with the world's advanced education. Under the background of MOOC, there are many shortcomings in the teaching methods of medical education in China. The introduction of advanced teaching facilities and the bold recruitment of talents have become important measures to improve the quality of medical education in China.

Although the exploration of physiology teaching mode in China has been moving forward, the pace has been slow. Modern medical education advocates student-centeredness, and this change of concept will inevitably lead to changes in teaching mode. Therefore, the exploration of teaching mode is particularly important, and the MOOC can provide a convenient way for physiology education [3].

4. Explore the Development Direction of Physiology Teaching Innovation

Under the background of MOOC, the choice of course content and teacher style has become the key to online learning. Some teachers pay attention to the cultivation of professional knowledge. Some teachers pay attention to practical learning. Students blindly follow the trend and easily lead to the out-of-sentence of the course. effect. Physiology is an important part of the traditional medicine curriculum. Teachers can adopt a systematic online teaching method to help students learn more easily.

Different from other subject areas, physiology is a discipline that focuses on logical thinking, comprehensive analysis, and solving clinical and practical life problems. It must be combined with experiments to learn. The biggest obstacle to teaching in the context of MOOC is that it cannot be immersed. This poses a great challenge to the teaching of physiology. Teachers can introduce the basic experiment or clinical practice content as the auxiliary of physiological theory teaching in the course of MOOC. The process of simulating the experiment by virtual simulation animation is very desirable. This requires the instructor to arrange the relevant virtual simulation animations in combination with the content of the course. The closer the virtual animation of the real experiment is to the students' learning [4].

In view of the current characteristics of the physiology teaching in colleges and universities, the different student bases, and the incomprehensible knowledge points, the PBL teaching and the advantages of the MOOC complement each other to achieve online and offline teaching and learning, which is conducive to stimulating students' enthusiasm for learning and cultivating students' comprehensive analysis ability. It is more conducive to the use of the student body, the teacher-led teaching structure, to better help students master the knowledge, and cultivate the ability to adapt to the clinical comprehensive analysis of the needs of the job.

The construction of the physiology course belongs to the discipline construction of the professional resource pool. In this way, rich teaching resources are crucial and a basic guarantee for the sustainable development of online education. Colleges and universities should rely on the platform of MOOC to build a rich, scientific and high-quality course learning platform, and employ experienced senior teachers and industry experts to teach online to fully improve the discipline construction of physiology [5].

5. The Application Significance of the Teaching Resources Development of Physiology

Modern education emphasizes the cultivation of students' thinking ability, and this can be done by applying MOOC teaching in the teaching of physiology courses in colleges and universities. In the actual physiology teaching process of colleges and universities, whether it is the diversified development of the teaching environment or the diversified development of teaching methods, students can bring new experiences to students. Students can also constantly innovate their own thinking and develop in the teaching process. Innovative ability, exercise students' ability to use knowledge flexibly, and lay a sTable foundation and provide a strong impetus for students' future medical work.

In order to apply the MOOC teaching method in the teaching of physiology courses in colleges and universities, teachers need to constantly innovate their own theoretical knowledge and practical ability, which will enable teachers to continuously improve their teaching ability and professional quality in the teaching process. At the same time, it is necessary for the school to train teachers, so that the ability of teachers to explore new teaching modes will gradually improve, and thus improve the quality of physiology teaching in colleges and universities [6].

6. Application Methods of MOOC in Physiology Teaching Courses in Colleges and Universities

The physiology teaching in the new era has put forward new requirements for the physiology teachers in universities. Many colleges and universities are limited by the lack of such teachers, and

they can only use the traditional education and teaching system and cannot make effective changes. At the same time, there are certain problems in the education and teaching of colleges with basic medical specialties in China, which leads to the extremely low efficiency of the training of new teaching talents, which cannot meet the needs of the development of physiological blood teaching activities in the new era.

The situational teaching mode refers to the creation of a specific environment through auxiliary teaching tools or multimedia equipment in the teaching process, and the knowledge and theory on the textbooks are displayed through stereoscopic images. This kind of teaching method can attract students' attention through vivid images, and stimulate students' enthusiasm for exploring teaching. At the same time, it can also activate the classroom atmosphere, which is conducive to the good interaction between teachers and students, bringing students into this time. In the classroom teaching content, at the same time, it can improve students' interest in teaching knowledge. Later, the teacher then guides the class to the actual knowledge, so that the students can better grasp the remaining teaching content, in order to improve students' ability to master the physiological theory knowledge [7].

The physiology teaching in colleges needs to combine theoretical knowledge and practical knowledge. This requires students to have high independent learning ability, but the self-learning ability of college students is not perfect. At this time, the teacher can apply the group cooperative teaching mode in the teaching process. In this teaching mode, the teacher needs to play its auxiliary and guiding role to carry out a comprehensive study of the physiological classroom mode. The classroom teaching time in colleges and universities is extremely limited. In order to better transfer knowledge and improve the quality of physiology teaching in class, it is necessary to make reasonable planning for the class process. Make full use of the time in class, give students enough opportunities to ask questions while teaching heavy and difficult knowledge, and set up classroom testing links to ensure that the problems in the classroom are resolved in the classroom, leaving no teaching dead ends. While improving students' mastery of the students' science teaching content, they can cultivate students' teamwork ability and practical operation ability, which is conducive to the overall development of students. The application of the group cooperative teaching mode in the teaching of physiology courses in colleges and universities can emphasize the status of students' teaching subjects, and teachers can also play a guiding role.

The teaching of physiology in colleges and universities has certain Abstractness and logic, and sometimes there is a situation in which it is impossible to systematically understand what is learned. At this time, in order to help students better understand relevant knowledge points, teachers can apply knowledge transfer teaching methods in college physiology teaching. Specifically, the knowledge transfer teaching method refers to the teacher can apply the learned points to the knowledge points when they explain a knowledge point, so that the students can better understand the new knowledge points and review the old knowledge. point. At this point, the teacher can gradually guide the students to understand the physiological knowledge points. Under the guidance of the knowledge transfer teaching method, students can enhance their understanding of the knowledge they have learned, and at the same time improve their knowledge transfer ability, which can help students to spread their learning thinking and thinking mode, which is conducive to the overall development of students [8]].

"Evaluating the mechanism of equal emphasis on results and processes" is one of the basic concepts of physiology. Carry out a comprehensive evaluation method combining students' academic achievement and growth record, establish a development evaluation system, improve the evaluation within the school, and improve the quality inspection mechanism of colleges and universities. Through the improvement of the assessment system to enhance the importance of the physiology of colleges and universities. In addition, to improve the curriculum resources, the school can establish a physiological virtual simulation laboratory, conduct functional experiments, and participate in the preparation of teaching materials according to their own conditions. It is also possible to jointly establish a physiology course resource pool and select a physiology subject backbone teacher to form a "physiology course resource development group". The backbone

teachers will take the lead in collecting excellent teaching cases, regularly collecting data, establishing a physiology course resource pool, and physiology course resources. Websites, etc., to achieve inter-school resource sharing.

7. Conclusion

The application of MOOC in the physiology teaching of colleges and universities can lay a theoretical foundation for the smooth progress of physiology teaching. In this way, students can apply the theoretical knowledge they have learned to practical thinking, which not only consolidates theoretical knowledge, but also enhances the application of theoretical knowledge. At the same time, students can form in the process of learning and practice. The scientific spirit is conducive to cultivating students' rational thinking and the spirit of courage to explore.

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