

The Adoption of "Mooc Class" Platform in an Advanced Mathematics Teaching

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Abstract: Higher mathematics, as a basic subject in science education colleges, has always attracted the attention of the majority of education and students. Because mathematics itself emphasizes logical thinking and reasoning skills, students are required to conduct strong research on algebra and geometry. Many The students' feedback on higher mathematics indicated that it was more difficult, and it was very stressful to learn. With the continuous deepening of curriculum reform, information technology has continuously penetrated into our college education, and creating high-quality teaching and communication platforms has become a mainstream trend. This article analyzes the current teaching status of advanced mathematics, and conducts in-depth research in conjunction with the construction characteristics of the "Mu Class" platform. With the main purpose of improving teaching quality and promoting the teaching efficiency of advanced mathematics, the author proposes the relevant platform application strategies of the author.

Higher mathematics is relative to elementary mathematics, and its research and calculation objects are more variable and complex. Most of the existing teaching system in China is based on mathematics courses in higher education, although students have already I have studied some algebra and geometry problems, but its content is more for the preparation of mathematical problems and research in colleges and universities. With the continuous development of the mutual benefit network industry, our teaching model is also changing. As a new online large-scale course, "Mu Class" has become an important tool for advanced mathematics teaching, and has been praised by the majority of teachers and students. The full name of is Massive Open Online Course, which is a new education model based on the Internet, that is, a large-scale open online course. For the application of the "Mu Course" platform in higher mathematics teaching, we need to analyze the current teaching situation in universities.

1. Teaching Status of Advanced Mathematics in Chinese Universities

(1) Analysis of Higher Mathematics Teaching Problems

As a basic course in public colleges and universities, advanced mathematics has always been the core and foundation of teaching and high mathematics has provided important teaching theories for other science courses. As a high number of public basic courses, it has a guiding and enlightening role for students' later learning. However, traditional teaching is mainly based on the indoctrination of the teacher's teaching ideas. Since advanced mathematics is very theoretical, the content of the classroom is relatively boring, and it is difficult for students to raise interest in learning. Therefore, students have generally reported low learning efficiency, and the classroom teaching feedback from teachers is not ideal [1]. The author believes that there are three main reasons for the current status quo. First, the current teaching model is relatively backward, and secondly, the teaching resources are not fully utilized, and there is also an imbalance between the teachers and teaching resources in different regions. Finally, the enthusiasm and initiative of students in the learning process high.

(2) The Relationship between Higher Mathematics and the Information Industry

With the continuous development and upgrading of the Internet industry, the information age has become an inevitable choice and trend for our current social development. As information

technology continues to deepen work and learning, the construction of teaching platforms has become a hot topic in the industry. Contemporary college students have experienced the beginning and take-off stages of the development of the Internet industry and information technology from an early age. They are more enthusiastic and familiar with the application of platform technology. Therefore, the integration of platform technology in higher education is particularly important for the long-term development of students. First of all, platform education relies on information technology and the Internet, changing the single model of traditional education, which can mobilize the enthusiasm and initiative of students' learning machines to a greater extent; second, platform teaching is different from traditional education forms and has more diverse teaching guidelines And teaching ideas can make the original monotonous math problems lively, which is also in line with the characteristics of students' interests. Finally, the Internet breaks the time and space restrictions, provides more educational resources for students, and eliminates the imbalance of education. , Has a sustainable planning role for the development of college education [2].

2. The Significance and Role of the "Mooc Class" Platform for Higher Mathematics Teaching

(1) For Students

Higher mathematics is different from the elementary mathematics that students have studied in the past. It requires students to have more comprehensive problem-solving skills. In addition to having problem-solving skills and problem-solving ideas, advanced mathematics also requires students to have innovative abilities and logical deduction capabilities. Students In the process of learning, it is necessary to get rid of the solid mathematical thinking in the past. The "Mu Lesson" platform optimizes and integrates the network resources according to the network resources. Most of the lecturers are famous school scholars and professional teacher teams. They have detailed analysis videos on knowledge points, which are very good for students to understand the problem. Effect. It also provides students with more abundant materials for learning, allowing students to improve their comprehensive ability in mathematics through diversified training. At the same time, they have broken the limitations of time and space, which can allow students to effectively use fragmented time for learning activities and can provide students Provide advanced teaching concepts and ideas to maximize the students' independent learning arrangements [3].

(2) For Teachers

As a guide for students' learning, teachers themselves need to have a more complete knowledge reserve, but the accumulation of knowledge in modern education cannot rely solely on the accumulation of their own teaching experience, but requires teachers to continue to find more efficient in the development of a diversified education industry Teaching path, and constantly improve its own teaching system. The "Mu Lesson" platform provides teachers with a large amount of teaching integration resources and gathers a large number of excellent teachers' courseware and teaching modules nationwide. Therefore, the "Mu Lesson" background integrates a large amount of data and user feedback and provides it in a statistical manner Give teaching reference to teachers. Teachers can also make comparisons based on their own teaching plans and network resources, and adjust them according to the actual situation of students, so that the teaching form is more abundant and perfect [4]. The current research and development of the "Mu Lesson" platform breaks through the transmission limitations of different mobile terminals. Teachers can share classroom multimedia courseware and corresponding teaching materials with students at any time, and can answer and correct students online. At the same time, teachers can also Communicate and communicate through the platform, and adjust the educational goals and teaching strategies at any time according to the current educational reform [5].

3. The Adoption Strategy of "Mooc Lesson" Platform in Higher Mathematics Teaching

(1) Improve the Teaching Exchange Mechanism of the Mooc Platform

With the development of society, mathematics education needs to be constantly updated and optimized. The "Mu Lesson" platform mainly serves both teaching and learning. Therefore, communication between teachers is essential. The platform itself is an open tool. Students' learning characteristics and teachers' education methods are also constantly changing, so the teaching communication mechanism needs to be constantly improved in order to achieve better service effects [6]. Higher mathematics itself has boring characteristics, and the use of diverse teaching methods can more stimulate students' subjective initiative. The study of teaching methods should not "make a car behind closed doors", but "work together". The network platform has broken the limitations of time and space. All educators can share and learn through the platform. For some of the difficulties and points of advanced mathematics, they can continue to innovate and develop between exchanges. It is recommended that the construction and improvement of the platform take the teacher group as the main service object, and pay attention to its teaching feedback data Contrast, strengthen the transmission and sharing of work groups and instant messages, and build targeted courseware modules to provide a standardized framework for teachers' curriculum design, and facilitate the communication and delivery of teaching platforms. Teachers can download and revise the teaching provided by others the module provides the necessary technical guarantee for the innovative exchange of teaching content [7].

(2) Use the Resource Library of "Mooc Lesson" To Expand the Teaching Content

The development of science and technology is the process of human exploration of objective facts. Not every knowledge is an eternal truth. Even the teaching theory applied for many years in the education industry can be used by contemporary scientists or educators after a few years. "Subversion", our education is more to guide students to explore the truth of science, rather than to instill the existing "definition" and "concept" to students, modern education pays more attention to training students' ability to reflect and innovate, therefore, we need to expand our teaching content based on the database of the "Mu Lesson" platform. It is recommended to provide students with the previous exploration process and experience results, and provide students with more perspectives to encourage students to question and explore mathematical problems. In addition, each student's ability and learning characteristics are different. Our education also needs to have personalized differences. The establishment of the database can also provide different students with targeted learning resources. In addition, the establishment and improvement of an educational resource library for advanced mathematics can also provide teachers with the necessary technical and resource support for designing courseware. Through reference and learning, they continue to improve their teaching methods, and they can also use teaching videos from other educational work to open up new students. The direction of thinking, guide students to independently analyze and solve problems, and can provide students with different teachers from all over the country to teach resources, expand students' horizons, and continuously improve students' comprehensive learning ability [8].

(3) Build a Higher Mathematics Communication Platform between Teachers And Students

Platform education is an emerging education model with strong teaching advantages, but the traditional education model also has certain advantages. At this stage, we advocate a mixed education model of online platforms and offline communication to give full play to the advantages of the two models. , To provide students with a more excellent learning environment and learning atmosphere. As the leader of students, teachers should not only lead students in in-depth concept learning, but also provide students with necessary answers in the process of students' exploration of problems to prevent students from detours. The process of exploring advanced mathematics is bound to be difficult. If you can't help students find efficient solutions in time, it is easy to cause students' burnout and reduce their interest in learning [9]. In view of this, we suggest to build a higher mathematics communication platform between teachers and students. Students will feedback some problems in the process of autonomous learning to the teacher through the platform. The teacher can summarize these problems and propose personal problem-solving ideas, but still need to Guide mainly, encourage students to explore on their own, but can provide students with reference

to the more efficient ideas recognized by the education industry. Teachers can also use the platform to form a communication group of students with similar abilities and levels, and provide unified answers for students on a regular basis. Under the leadership of the teacher, students can continuously collide with the sparks of thought and promote each other's divergent thinking [10].

Conclusion

The development of education needs to combine the progress of society and the development of science and technology. Educators must keep up with the pace of the time, and continuously improve their educational consciousness, giving full play to the advantages of traditional teaching, and allow the Internet thinking to penetrate our teaching behavior. Teachers should also pay more attention to the study characteristics of current students, and make adjustments to teaching according to the actual situation of the school, should also make clever use of the teaching advantages of the platform, highlight the status of students as the main body of education, follow the trend of the time, and use modern technology to contribute to the higher math education.

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