Application of Network Imparting Platform in Higher Mathematics Imparting

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Abstract. This year, online imparting has become a popular topic. Due to the novel coronavirus pneumonia outbreak, schools in China have to stop the students' return to school and the behavior of imparting under the school's line. It is because of the emergence of network imparting platform jointly produced by many schools that students can hear the imparter's lecture in their own home as usual. Higher mathematics has always been a science subject for college students [1]. We know that the learning of offline higher mathematics is very difficult. In this paper, based on the application of network imparting platform, the imparting of higher mathematics course is explored, and the conclusion is drawn.

Keywords: Network Imparting, Advanced Mathematics, Application

1. Introduction

The emergence of computer related educational means has indeed accelerated the pace of China's education reform. It not only brings a certain degree of influence to higher education, but also brings new hope to the imparting methods of Science in our country. The main purpose of informatization and digitization of higher education is to integrate information media into the construction of campus as soon as possible. The construction of network imparting platform completes this task well. It can transfer the knowledge of higher mathematics to the college students on campus through the network media of computer. It can make the whole school imparters and students feel the convenience of digital education [2].

Advanced mathematics has always been a nightmare for engineering students. Because of its great difficulty, the imparting content of offline higher mathematics is also very complicated. Because of the novel coronavirus pneumonia outbreak this year, students can not return to school in time. How to urge students to study at home and strengthen the relationship between students and the classroom has become the task of colleges and universities. As students can not reach the school, the use of network imparting platform is essential. For the science content of higher mathematics which is more difficult, the network imparting platform can increase its knowledge impartability to the maximum. This can greatly enhance the quality of imparting and students' self-learning ability.
2. The main function of network imparting platform in higher mathematics imparting

2.1. It can create the environment of situational imparting
The old content system of higher education was established 200 years ago. We can think that the model of mathematics imparting we accept today was developed by scientists 200 years ago. Although the concept of this imparting method is strict, the system is complete and the exposition is comprehensive, it still lacks the basic situational imparting. However, network imparting can solve this problem well. It can create the proper imparting situation to help students learn and explore independently in the designed situation.

2.2. It uses special imparting methods to stimulate students’ learning enthusiasm
The old way of imparting mathematics is to use blackboard and chalk. Due to the unique curriculum resources and characteristics, the description of the concept of narrative mode is a classic imparting method. What can be sure is that this way can be very good to help students sort out their mathematical thinking. However, it can not stimulate students' interest in learning. The imparting mode of advanced mathematics based on network imparting platform adopts the combination of multimedia animation and definition to stimulate students' enthusiasm (see Figure 1).

![Concept map of network mathematics teaching.](image)

2.3. Repetitive learning helps students memorize knowledge deeply
A good memory is not as good as a bad pen. This is a famous proverb in our country. Our daily knowledge can be found in our daily life [3]. The knowledge recorded in this book can be reviewed repeatedly. In the end, we can master the knowledge of the book completely. Advanced mathematics is a science subject. However, there are many definitions and formulas of its internal basis. If we just use our brains to memorize this knowledge. One day in the future we may forget. Moreover, our memory time will be very short. The imparting of network mathematics is carried out by video. Video can be cached and saved. Students can watch these videos over and over again to consolidate their knowledge. It can help students to remember a variety of mathematical knowledge.

3. The influence of network imparting platform in Higher Mathematics imparting

3.1. It can provide rich imparting means
In fact, as a new imparting method, network imparting provides a very rich imparting method for the resources of mathematics in Colleges and universities. It uses the network means to express the main content of mathematics through different text, graphics, images and animation forms. It can make the imparting of mathematics cross the limitation of time and space. According to a large number of statistical data, network imparting is the most concerned object of educators in science colleges. It can show the imparting content of higher mathematics from multiple angles and multiple levels. It can greatly realize the mutual communication between students and imparters (see Table 1).
Table 1. Comparison between network imparting and old teaching based on higher mathematics teaching mode.

| Option                             | Students' satisfaction |
|------------------------------------|------------------------|
| Network mathematics imparting      | 85%                    |
| Old mathematics imparting          | 75%                    |
| Combination of network and offline | 90%                    |

3.2. *It can embody the abstraction of higher mathematics*
The content of higher mathematics is very complicated. It's also very difficult. Compared with the elementary mathematics in high school, the content of higher mathematics is more abstract. This kind of abstract knowledge is difficult for students to understand. This is also the reason why many college students hate higher mathematics. However, network imparting can make the abstraction of offline knowledge concrete. In this way, students can quickly understand the definition of mathematics and the content of formulas. Of course, for students of other majors, self-study can also be realized in the form of network imparting.

3.3. *It can strengthen students' mathematics thinking ability of autonomous learning*
We know that there are many branches of higher mathematics. It includes probability theory, algebra and geometry. After students enter the network imparting platform, they can choose different mathematics content according to their own needs and interests. Network platform is a huge library of learning resources. In addition to the basic content of mathematics learning, students can also choose a variety of test papers to test. The system will automatically score and give the correct answer. What can be sure is that this way can strengthen students' autonomous learning ability.

4. The establishment of the application system of network imparting platform in higher mathematics imparting

4.1. *Preparation for the establishment of the system*
The fund operation of each school and the demand of network talents are different. Therefore, the use of network imparting platform in each school is also different. In order to establish a good imparting network platform of higher mathematics, in the early stage of the establishment, the school needs to use network technology personnel to establish a website with relatively large capacity. First of all, the degree of tolerance of the site's traffic must be large. Otherwise it will collapse due to the crowding of many students [4].

4.2. *Schools should strengthen the qualification of imparters' platform*
The imparting resources of network higher mathematics do not appear out of thin air. These resources are recorded by imparters according to their own imparting characteristics and imparting habits. After the imparters have recorded their videos, they upload them to the website. Students can only see these resources in the website after the management of the website reviews it. Therefore, strengthening the qualification of higher mathematics platform is also a medium-term task for colleges.

4.3. *The school should encourage the students to study mathematics by themselves*
Each student's self-control is different. Not all students can study independently in their own home or after class through the inquiry of network resources. In order to improve the function of network imparting platform, the school should encourage students to study mathematics resources independently.
5. The establishment of feedback function of higher mathematics course imparting based on network imparting platform

5.1. Definition of feedback mechanism
The feedback mechanism is generally an important feedback function of the user's experience in the establishment of the website. After users use some software or websites, they will express a lot of suggestions and opinions. Through the feedback mechanism, these suggestions can be seen by website managers. The manager can correct the system error according to the feedback from different people.

5.2. The importance of establishing feedback mechanism
If the system does not have its own feedback mechanism, managers may not be able to notice some loopholes and defects in their own developed system [5]. Through people's feedback, technicians can better improve the defects of the system. Therefore, the use of feedback mechanism is very important in the early stage of the development of network imparting system.

6. Conclusion
In fact, the establishment of network imparting platform can provide imparters with imparting and self-learning tools for students. As a very difficult science and engineering discipline, higher mathematics learning is very important [6]. It is widely used in many fields. In the process of social progress in the future, the role of higher mathematics will be an unsolved mystery. Therefore, I think the research on the application of network imparting platform in higher mathematics imparting is an indispensable experience in the academic circles.

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