Research on the Application of College Mathematics Teaching Based on WeChat

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ABSTRACT

The WeChat public platform is an important social tool for contemporary college students to study and live. The platform has the characteristics of rich content, simple operation and various forms. It is widely used by college students. Today, with the rapid development of society, education and teaching reform is an important aspect of China's modernization drive. As a base for training high-level talents of socialism, colleges and universities have always attached importance to the reform of teaching. Based on this aspect, WeChat public platform has become one of the important auxiliary means in University teaching. The use of the platform is conducive to improving teaching quality and promoting interaction between teachers and students. The background, concept definition and existing problems of WeChat public platform in teaching mathematics in universities are analyzed. This paper points out the important role of the extensive use of this platform in University teaching. Finally, the corresponding suggestions and measures are given.

KEYWORDS

WeChat, university mathematics, teaching mode, learning interest, teaching reform.

INTRODUCTION

At the end of 2015, China's Internet penetration rate has reached 50.3%, the number of Internet users has reached 688 million, and the mobile phone users have reached 620 million [1]. In recent years, with the development of digital technology, human society has entered a new era of information. The mathematics education is also inevitably affected by the storm of information technology, showing a new trend of development [3]. The "three micro platform" provides a new opportunity for the mathematics education of college students. It also brings new challenges to the mathematics education of college students. Therefore, under the background of "three micro platform", the mathematics education of college students has become an important research content. The content, form and approach of Mathematics education of college students are closely related to their social environment and educational information background. From the perspective of social background, the study of "three micro platform" in the context of Mathematics education of college students meets the requirements of the digital era [2]. From the perspective of educators, the mathematics education of college students under the background of "three micro - platform" is in line with the inherent requirements of the development of college students. From the perspective of the development of education, the mathematics
education of college students under the background of "three micro" platform is in line with the fundamental requirement of the innovation of teaching methods. Therefore, under the background of "three micro platform", it is of theoretical significance to study mathematics education of college students. It provides a new path for the mathematics education of college students in the new media age [4]. The topic selection has certain practical significance.

THE NECESSITY OF CARRYING OUT MATHEMATICS EDUCATION OF COLLEGE STUDENTS BY USING WECHAT

From the point of view of supply platform, most of our current mainstream media have already established their own WeChat. The WeChat of government enterprises and colleges and universities are becoming more and more perfect. The total number of micro-blog in China's media has exceeded 110 thousand [6]. From the transmission speed of the platform, the WeChat users are related to each other. A piece of information can be forwarded hundreds of times with this platform. From the point of view of the audience, more and more people rely on WeChat to obtain information. They use the WeChat channels to communicate. The college students have become the main force of using WeChat. Young people have a variety of ways of getting information. The use of WeChat has brought about changes in technology, interpersonal communication, lifestyle and mode of thinking. For the mathematics education of college students, it conforms to the trend of the times and changes in the educational model. As an extension of human senses, the three-dimensional trend of media communication is very obvious. Each individual is not only a communication node, but also an object of information dissemination [5]. For the mathematics education of college students, the WeChat is an inevitable change in the educational model. The combination of WeChat and mathematics education of college students is the deep integration of mathematics education and humanistic care. Therefore, the use of WeChat media advantages, we can innovate the mathematics education model of college students, which meet the inherent requirements of the development of college students. The impacts of micro-media on college students is shown in Figure 1.
The miniaturization of the contents of the three micro-platform conforms to the characteristics of college students’ activity. Compared with the middle school students, college students have more opportunities to reach a wider range of information and objects. College students have a certain degree of professional competence and practical ability [7]. They expect to be recognized and understood. The curiosity of society and the judgment of the self-make them eager to join in social practice. The information content of WeChat is close to life, and the right of speech is equal. With the help of the WeChat, college students can achieve the intention of interfering with social, political and economic life. WeChat satisfy their need to express their views independently. Taking the WeChat as the media, students can contact the outside world through WeChat, micro-blog and micro video [8]. The communication space of WeChat has unlimited characteristics, which conforms to the lifestyle of College students. The diversity of the ideological background of college students needs to break through the traditional mathematics education. WeChat can help college students face the real life, take a correct view of practical problems, set up a correct outlook on life, world outlook and values, and achieve better educational results. The subject of the WeChat is extensive, which conforms to the complexity of the ideological behavior of college students. The decentralization of college students has stripped the internal connection between the two sides of education information transmission. This objectively affects the effect of Mathematics education, and is not conducive to communication between teachers and students. WeChat established a comprehensive three-dimensional network organization management model. The timeliness of communication also improves the efficiency of college students’ organization and management. The integration function of WeChat will play a powerful platform role [9]. Therefore, under the background of WeChat, the mathematics education of college students conforms to the inherent requirements of optimizing the organization and management model of College students. The main information sources of college students are shown in Figure 2.
THE PRESENT SITUATION AND PROBLEMS OF THE APPLICATION OF WECHAT PLATFORM IN COLLEGE MATHEMATICS TEACHING

Lack of Awareness of the Importance of WeChat Platform

From the perspective of the university, the use of microblogging, WeChat and video is no longer strange. The data show that more than 1,000 colleges and universities have opened the school level of official microblogging. About 40% of the domestic colleges and universities have opened the official microblogging, and the various types of school students in the number of microblogging groups is as much as 13,000 [12]. College students are the main group using micro-blog, WeChat and micro video. However, college students regard micro-blog, WeChat and micro video as objects respectively. They take a one-sided view of the three-micro platform. With the emergence of modern digital technology, WeChat is a new thing. The development of "three micro platforms" in universities is still in its infancy. The application of the WeChat media to the mathematics education of college students is almost a blind spot of education, which fully reflects the insufficient attention to the mathematics education in Colleges and universities. 94.96% of college students have opened micro-blog, WeChat and micro video, and only 5.04% of them have not yet been used. This data shows that WeChat in contemporary college students have a strong demand for reality. From the micro-blog point of view, in all colleges and universities across the country, there have been 7.4% colleges and universities "official micro-blog" fans more than one hundred thousand people, but there are nearly 15% of the University official micro-blog less than 10 thousand people. There is little educational information content in Colleges and universities, and there is no interaction between the two sides of education in micro-blog. Micro-blog is in name only. The fundamental reason is that the school's WeChat attention is not enough. 56.64% of college students believe that three micro media have an impact on their outlook on life and values, which shows that the construction of WeChat is necessary. However, in educational practice, the effect of "three micro" platform has not been paid enough attention by universities. The reasons for college students’ using micro-media is shown in Figure 3.

Figure 2. The main information sources of college students
Imperfect Operation Management

At present, many institutions of higher learning have gradually established the WeChat, which has taken the first step in the mathematics education reform. In specific practice, the WeChat has a prototype. However, due to the lack of corresponding operational guarantee mechanism, it has not produced very good influence in teaching practice. WeChat is an advanced digital technology platform. From the point of view of the development and maintenance of colleges and universities, it is necessary to continue to invest in special funds. WeChat is the mathematics education information content platform. It needs professional mathematics educators to do theoretical support. At the same time, WeChat is also a professional technical platform, which needs professional new media technology workers to do technical support. In the current actual work, the team that maintains WeChat is mostly composed of teachers of Mathematics education and student cadres. In this team, the personnel who grasp the mathematics professional knowledge and skilled use of WeChat media technology are rare. Student cadres also have a superficial understanding of the content of Mathematics education. The college students have a high utilization rate of WeChat media [10]. With the growth of grade, the dependence increases, which shows that the content of WeChat will directly affect the effect of Mathematics education. The focus of College Students' entertainment life information shows the poverty and emptiness in the spiritual field of contemporary college students. The existing mathematics education lacks the guidance mechanism for content. College students have a large demand for three micro media information. Many college students open three micro media in order to receive and publish information. The forwarding quantity of some false or even reactionary information increases geometrically [11]. The relevant legal protection mechanism has not yet fully formed, which greatly tests our ability to respond to online public opinion.
COUNTERMEASURES

The Change of Idea

The application of WeChat in the mathematics education of college students, in essence, is the integration of micro-blog, WeChat and micro video in the same space-time dimension. In practice, the three media should be integrated in all directions. The superior power of a single media turns into the common cooperation ability of multimedia, so as to serve the content of mathematics education and serve the purpose of Mathematics education. Three micro platform allows students to accept three-dimensional, comprehensive information stimulus, which enhances the effect of Mathematics education of College students. Mathematics education should keep up with the development of technology, and actively adapt to the progress of digital technology. Colleges and universities should gradually open three micro-platforms. The positive guidance creates a good atmosphere of public opinion for the "three micro - platform" in the use of mathematics education. The use of micro-blog, WeChat and micro video in college students' Mathematics education is very unbalanced. The frequency of micro-blog and WeChat is very high, but the application of micro video in education is very scarce. In fact, the impact of micro video cannot be underestimated. Colleges and universities should make full use of the advantages of micro-blog, WeChat and micro video media, especially the vivid image of micro video, in order to serve mathematics education in Colleges and universities, and to improve the effectiveness of Mathematics education. Finally, universities should rationally plan and guide the three micro platforms of various departments from the macro level, so as to make it under the "three micro-platform" of the school. The school's "three micro-platform" should strengthen the relationship with the "three micro-platform" of the faculty. All three micro-platforms in the school should do their best and work together. The effect of three micro platforms is emphasized.

The Enhancement of Educational Ideas in Practical Application

WeChat should not only provide relevant information in the mathematics fields, but also provide the latest information and trends in the fields of culture, art, science and technology. From the form of educational information, traditional education should be combined with micro-blog, WeChat and micro video. WeChat is a new carrier of Mathematics education and communication among college students. Educators play a variety of roles in this virtual space. Education communication has realized the normalization of the subject's information interaction, and dialogue and consultation between the subjects of equal rights have broken the two-opposition situation in the mass media era. As a humanities and social disciplines, mathematics needs to be exchanged and discussed. Teachers can push mathematics education information systematically through micro-blog, WeChat and micro video, so as to implement the teaching purpose. Teachers can serve as listeners and pay attention to students' thoughts and emotions from the perspective of students. The college students are no longer just passively receiving information, but they can also select useful information from vast amounts of information. Students use micro-blog, WeChat, and micro video to participate in the creation of information, actively release information, and achieve self-education. The diversity and participation of information sources stimulate the initiative of students. In the context of the WeChat, each college student
can share his feelings, emotions, opinions and opinions at any time and place. In interactive learning, the component of autonomous learning is very large. It conforms to the characteristics of individual learning as the main part of college students, and enhances their initiative in learning and exploring the unknown world. The college students are different from senior high school students, and they have certain independent learning ability. Under the background of three micro platform, the mathematics learning of college students is no longer confined to the classroom. It not only keeps the long-term effect of the learning mechanism, but also conforms to the characteristics of college students' independence and flexibility in their study life. Learning has become relaxed and orderly, which meets the needs of college students for real-time information.

Establishment of Operation Guarantee Mechanism

At the macro level, the government continues to strengthen network construction and reduce network tariffs. It not only reduces the economic burden of college students using three micro platforms, but also gives policy support to the construction of three micro platforms in colleges and universities. The colleges and universities should establish a professional team of three micro platforms. Mathematics education emphasizes the internalization of the educated under the influence of external information. In this process, the individual influence of the educator is very important. In the "three micro-platform", this is particularly prominent. Through the use of WeChat, the school set up a bridge of ideological communication with college students, and spread mathematics education ideas. Good campus culture will influence students' ideological level, political quality and spiritual outlook imperceptibly. On the one hand, in the WeChat background, mathematics education of college students should build a good style of study. On the other hand, the mathematics education of college students should make use of the traditional media means such as campus official websites, school broadcasting stations and the fusion power of three micro platforms, so as to promote the formation of campus culture. Finally, under the background of WeChat, the mathematics education of college students should take advantage of each school's professional characteristics to optimize the formation of campus culture. In a word, the mathematics education information permeates the campus culture, so as to give full play to the content guidance mechanism of WeChat platforms.

CONCLUSION

The powerful function of WeChat's public platform is to provide a strong guarantee for solving all aspects of teaching. Because of the diversity, richness, and flexibility of WeChat's public platform, it enables students to understand the other side of mathematics, thus stimulating students' interest in learning. The extensive use of the WeChat public platform in university teaching has also improved the efficiency of teaching. With the development of WeChat software, it has been accepted by more and more people, and has become an indispensable tool and platform for social communication in many people's lives. It is believed that WeChat can play its role in the reform of mathematics teaching in colleges and universities. Through the form of illustrations, the learning interest of college students was inspired. At the same time,
through the WeChat platform, teachers really teach students in accordance with their aptitude, giving students a greater learning space.

REFERENCES