

Research on Mathematics Teaching Mode of Sino Foreign Cooperative Universities in the New Era

Shenghui Ju

Basic Department of Jinan Campus, Shandong University of Science and Technology, Jinan 250031, Shandong, China.

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Abstract : With the rapid development of social economy, the requirements for talents have changed quietly. Higher education is no longer satisfied with the traditional model, and accepts the excellent experience of other countries with an open attitude, so as to achieve the purpose of cultivating more excellent talents. At present, Sino foreign cooperation in running schools has become an effective way for Chinese colleges and universities to absorb international advanced educational resources. In recent years, Sino foreign cooperation in running schools has been continuously combined with the construction of “double first-class”, most of which closely follow the forefront of world science and technology, and college mathematics is an important course of related majors. In order to better improve the teaching efficiency of college mathematics, teachers need to make some changes to teaching activities on the premise of learning the new educational ideas of our society.

Keywords : Sino Foreign Cooperation in Running Schools; College Mathematics; Research on Teaching Mode

1. Introduction

As a place for cultivating talents with strong professionalism and important role in social development and economic promotion, universities pay more attention to the international advanced teaching mode. In order to achieve better teaching effect in a shorter time, cooperative school running is a better method, and college mathematics is a basic discipline. In teaching practice. It is found that the traditional teaching mainly starts with arousing students’ interest and teaching methods, which cannot achieve ideal results. This paper will put forward a new teaching mode, namely process teaching mode, and find its advantages in teaching through the discussion of this teaching mode.

2. The reality of college mathematics education in cooperative education

In China, not only the educational concept and practice of primary and secondary schools are constantly innovating, but also the educational system of universities is constantly changing, and Sino foreign cooperation in running schools is an important content of educational reform. The focus of cooperative school running is to count and integrate their advantageous resources through the cooperation between domestic and foreign universities, while accepting and absorbing foreign advanced teaching experience, so as to promote the internationalization of China’s higher education, which is also an attempt taken by China’s higher education to cultivate better talents. It has been nearly ten years since Sino foreign cooperation in running schools, and the function of serving economic and social development has become increasingly apparent. Particularly, in recent years, it has been organically combined with the “double first-class” construction to jointly undertake the important task of building higher education, enriching the people and strengthening the country.

College mathematics course is a basic course for students majoring in science, engineering, finance and economics. On the one

hand, this course lays the foundation for students' subsequent course learning, and also undertakes the first stick of whole process and all-round education under the great ideological and political pattern. In June 2020, the Ministry of Education issued the guiding outline for curriculum ideological and political construction in colleges and universities, which requires that "to implement the fundamental task of building morality and cultivating people, we must integrate value shaping, knowledge imparting and ability training into one and cannot be separated". As an abstract and theoretical subject, college mathematics takes individuals as the main body in both daily teaching and scientific research, and has little sense of teamwork; In foreign university mathematics teaching, the reform of teaching, scientific research and content has long been carried out, focusing on the cultivation of students' mathematical thinking, and committed to improving their ability to understand and solve problems, so as to reduce boring mathematical calculation. At present, the universities in China still focus on teachers' classroom teaching of mathematics knowledge, and there are still deficiencies in the formation of students' team cooperation, the cultivation of team consciousness, and the cultivation of analysis and problem-solving ability.

College mathematics teaching should be people-oriented and respect students' personality development. In order to stimulate students' interest in learning, according to the characteristics of contemporary college students, we should take computers as an important auxiliary tool, strengthen online interaction, and introduce smart classroom and flipped classroom into teaching, so as to go hand in hand with offline counseling, Q & A. We should treat students with appreciation. For students with poor learning ability, we should look at their progress and learning attitude, pay attention to their learning process, and do not take achievement as the only standard to judge students.

3. Specific contents of developing process teaching mode in college mathematics teaching

3.1 Abandoning fighting on their own and forming a cooperative team

In the traditional education mode, the main body of teaching is teachers, which mostly adopts "cramming" teaching, ignoring the cognitive differences of students. In recent years, through the continuous verification of some educators, it is found that the student-centered education model is easier to stimulate students' interest and achieve teaching objectives. In the teaching of college mathematics, the focus of teaching has gradually shifted to the construction of teaching environment and the promotion of communication and cooperation among students. This teaching method requires teachers to change the traditional teaching mode. When imparting knowledge, they should start from the objective situation and the reality of students, encourage students to carry out interactive learning in the form of groups, and teachers should give guidance in time to make their exploration road smoother. At the same time, they should gradually cultivate students' spirit of unity and cooperation and form good mathematical thinking ability.

In college mathematics teaching, teachers need to constantly learn and improve in three aspects: Professional knowledge content, creative themes and educational methods, attract students with teachers' charm, influence students with teachers' spirit and arouse students' interest in learning. Only in this way can teachers and students like each other, process teaching have a good beginning. In combination with students' previous achievements and performance, they are reasonably grouped according to students' cognitive level. The members of the cooperative learning group are mainly 4-6 people, so as to ensure everyone's position in team cooperation and the opportunity to give full play to their talents, and promote their active knowledge exploration. At the same time, everyone has fixed responsibilities, and avoids that fishing in troubled waters, who cannot make due contributions to team construction, which makes them believe that their status is important and irreplaceable. Only students actively participate in the learning and exploration of mathematical knowledge can gradually cultivate mathematical thinking and achieve good teaching results.

3.2 Skillfully using computer to complete college mathematics teaching activities

We should strengthen online interaction and enhance the interactivity of teaching contents by using interactive learning platforms and software. With the development of information technology, intelligent classroom is introduced into teaching. In smart classroom teaching, the classroom is divided into three links: Micro class autonomous learning, classroom teaching activities and after-school test improvement. According to the needs of students, teachers collect, integrate and edit curriculum resources, complete digital transformation, and push micro courses and learning task lists to students through the resource platform, in order to set different teaching objectives according to students' actual learning ability. After autonomous and cooperative learning, students upload their learning tasks to their personal learning space. Teachers analyze students' learning through big data on the resource platform and further adjust the focus of classroom teaching. The interactive classroom system can store the students' homework learning evaluation and detection data in the cloud server. Through big data analysis, learning reports for each student can be generated and feedback students' learning status in real time. Teachers can adjust teaching strategies in time to teach students

according to their aptitude and classify teaching, promote online and offline interaction, and teach new courses online, as well as answer questions offline, in order to grasp with both hands.

3.3 Setting of examination mechanism

In traditional education, a test paper is usually used to test students' learning results at the end of the term. This method is one-sided, ignores students' individual differences, and is easy to attack students' enthusiasm for learning college mathematics. At present, there are three common examination modes in mathematics education in Sino foreign cooperative universities.

3.3.1 Opened book examination

During the examination, students write down the learning priorities of this semester on blank paper, and the teacher will score according to the contents recorded by students. This method helps to reduce students' learning pressure and no longer focus more on rote memorization of various mathematical formulas.

3.3.2 Combination of daily and final assessment

In short, it takes the attendance rate of daily classes and the completion of homework as a part of the assessment content and combines it with the final assessment to give students a comprehensive evaluation, promote students' motivation to learn college mathematics, and contribute to the improvement of students' daily behavior.

3.3.3 Small papers on each part of knowledge

The content of college mathematics is very broad. In the learning process, teachers can use the form of small papers to help students summarize various knowledge, so that they can not only sort out the knowledge they have learned, but also deepen their impression, and better master the knowledge they have learned, so as to lay a good foundation, facilitate the exploration of more profound mathematical problems, and cultivate better talents for the country.

4. Conclusion

At present, various universities run by Sino foreign cooperation have various high-quality educational resources, which provide various convenient conditions for the implementation of educational reform. Teachers should learn advanced teaching experience and change from the traditional education mode based on teachers' narration to the process education mode. We should be student-oriented, cultivate students' interest in learning, and organize students to be divided into study groups. Through the full cooperation of team members, with the assistance of computer, online teaching and other means, we can reduce students' pressure and stimulate their interest in learning, so as to achieve the purpose of cultivating high-level and sophisticated talents.

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