

Exploration and Practice of Integrating Ideological and Political Education into the Teaching of Public Basic Courses in College Mathematics

Meihong Xiang

Changsha Normal University, Changsha 410100, China.

Abstract: With the rapid development of China's economy, education is also constantly undergoing reform and improvement. In the education and teaching work of the university stage, ideological and political education and university mathematics teaching are two courses that college students must learn at present. It has a significant impact on the growth and development of students. Integrating ideological and political education into the teaching of public basic courses in university mathematics can effectively promote students' growth and development. This article analyzes the significance and current situation of integrating ideological and political education into the teaching of public basic courses in university mathematics, and conducts effective strategic analysis. In order to achieve the goal of cultivating morality and talent in higher education, and promote the growth and development of students.

Keywords: College Mathematics; Ideological and Political Education; Exploration and Practice

Introduction

Integrating ideological and political courses into university mathematics classroom teaching has become an important task in the current curriculum reform of university mathematics teachers. During the teaching process, teachers should attach importance to the significance of integrating ideological and political education into the teaching of public basic courses in university mathematics, deeply analyze the learning situation and personality characteristics of current students, enrich teaching resources, innovate teaching methods, create teaching scenarios, fully and effectively integrate ideological and political education into the teaching of public basic courses in university mathematics, and guide students to master more knowledge in this process, Promote the formation of students' correct values and promote their growth and development.

1. The significance of integrating ideological and political education into the teaching of public basic courses in university mathematics

Mathematics is a key discipline at any stage of the education process. Mathematical knowledge is ubiquitous in natural sciences, social sciences, engineering technology, economic management, and other fields. As a fundamental discipline, mathematics has a certain driving effect on many disciplines. Among various universities across the country, university mathematics is regarded as a fundamental course for majors in science, engineering, and economics. College mathematics knowledge can effectively cultivate students' logical thinking ability, spatial imagination ability, and abstract thinking ability. In the teaching process of the university stage, mathematics is everywhere. It can be seen that integrating ideological and political education into the teaching of public basic courses in university mathematics can effectively promote students' understanding and mastery of ideological and political knowledge. The mathematical knowledge that students come into contact with in the process of mathematics classroom teaching can be fully and effectively applied in daily life and learning. Mathematical knowledge is a knowledge that all students must learn and master. It plays an important role in the growth and development of students. Professional ideological and political education is a combination of professional education and professional characteristics carried out by universities throughout the entire process of education and teaching. In the overall goal, entire process, and various links of professional talent cultivation, it is necessary to organically integrate the ideological and political education elements and functions contained in this major. This not only enriches the ideological and political elements and functions of professional courses in ideological and political education, but also enables non professional courses to better reflect the characteristics of "teaching according to profession" in ideological and political education. From this, it can be seen that professional ideological and political education is the unity of curriculum ideological and political education

and ideological and political courses. It is necessary to not only play the role of ideological and political education in curriculum teaching, make professional course teaching have an ideological and political flavor, but also combine professional education to carry out ideological and political course teaching, and make ideological and political course teaching have a professional color. Ideological and political education belongs to the humanities and social sciences, and the knowledge and principles contained in ideological and political education play an important role in a person's growth and development. If students can effectively understand and learn the knowledge contained in ideological and political education, they can obtain more principles from it and regulate their behavior.^[3]

2. The current situation of integrating ideological and political education into the teaching of public basic courses in university mathematics

At present, there are still certain problems and shortcomings in the process of integrating ideological and political education into the teaching of public basic courses in university mathematics. Firstly, the professional literacy of teachers is not strong. In the process of Further Mathematics teaching, Further Mathematics has more content and abstract knowledge points. And compared to other stages of teaching, the pace of teaching is much faster. Therefore, the curriculum of college mathematics has always been a difficult problem in the eyes of students. Students have a certain aversion and irritability towards the teaching of mathematics teaching courses. Once teachers lack professional literacy in this process, they will encounter certain problems and deficiencies in imparting knowledge to students. Teachers who lack professional literacy often use traditional and single teaching methods to guide students in exploring and learning knowledge. During this process, students cannot effectively understand and grasp ideological and political knowledge in the process of learning mathematics, resulting in students not being able to learn more knowledge and information from it, Not to mention learning some ideological and political knowledge from mathematics teaching. It will have a certain impact on the growth and development of students in all aspects.

3. Exploration and Practice of Integrating Ideological and Political Education into the Teaching of Public Basic Courses in College Mathematics

3.1 Enrich teaching resources

If teachers want to integrate ideological and political education into the teaching of public basic courses in university mathematics, they must first enrich teaching resources. The public basic courses of mathematics and ideological and political education in universities are two completely different courses. To effectively combine the two, it is necessary to explore the parts that can be integrated separately. During this process, teachers can analyze mathematical textbooks and uncover some educational knowledge points contained within them. Then, in this process, it matches the knowledge in ideological and political education, and forms a complete knowledge system through effective integration. Then the teacher guides the students to explore and learn knowledge. In the process of teaching, teachers should guide students to use mathematical knowledge to solve practical problems in daily life. They should teach students to calculate accurately, seek truth from facts, and not be fooled at will. They should be honest, trustworthy, and upright. Through this approach, mathematics courses and ideological and political education are effectively integrated to promote students' growth and development..

3.2 Innovative teaching methods

In the process of teaching, university teachers need to innovate their teaching methods in order to effectively integrate the public basic courses of university mathematics with ideological and political education. If we want to integrate the public basic courses of university mathematics and ideological and political education courses, we must not adopt the traditional teaching methods before. We should innovate a teaching method that is more suitable for current students based on the characteristics of the public basic courses of university mathematics and ideological and political education, guiding students to understand and absorb knowledge in this process. Create an interesting situation for students through some small things in daily life, and create and integrate a mind map of the mathematical knowledge and ideological and political education involved in the public basic courses of university mathematics. Through the combination of numbers and shapes, students not only learn mathematical knowledge, but also acquire certain ideological and political knowledge, promoting the formation of correct val-

ues, understanding more principles, and promoting the improvement of students' core literacy.

3.3 Creating Teaching Scenarios

In the process of teaching, if teachers want to effectively integrate the teaching of university mathematics public basic courses with ideological and political education, and play a better teaching role, they can create a good teaching situation through mathematical knowledge and ideological and political content. During the process of learning mathematical knowledge, college students often experience confusion, confusion, and lack of understanding. In this process, it is necessary to integrate ideological and political education, and students will be even more unable to understand some knowledge, effectively understand some knowledge, and be unable to effectively improve and develop. So, in this process, teachers can create an interesting teaching situation based on some ideological and political knowledge, integrate mathematical knowledge in the textbook into these teaching situations, and students can think and learn in the context. Such students can explore and learn knowledge with interest, and they can become more successful in learning mathematical knowledge.

Conclusion

In summary, integrating ideological and political education into the teaching of public basic courses in university mathematics has an important impact on students' growth and development. Integrating two disciplines into teaching is not only about integrating knowledge, but also about promoting each other between the two disciplines. The professionalization and personalization of university mathematics courses are relatively obvious. Ideological and political courses need to be integrated into the entire process of mathematics teaching in order to truly play their role, achieve effective supplementation of traditional classroom teaching, guide students not only to learn mathematical knowledge, but also to improve their moral education literacy in all aspects, improve the quality of teaching, and achieve the goal of cultivating morality and cultivating people.

References

- [1] Xuan ZX, Lu XL, Yuan AF. (2022) The construction and practice of ideological and political groups in university mathematics public basic courses [J]. *University Mathematics*, 38 (06): 45-52.
- [2] Zhang ZL. (2022) Research on the Implementation Path of Integrating Mathematics Curriculum into Ideological and Political Education in Local Undergraduate Colleges - Taking Hulunbuir College as an Example [J]. *Journal of Hulunbuir College*, 30 (05): 131-134+139.
- [3] Wang W, Wang F. (2022) How to improve the pertinence of ideological and political education in college mathematics courses -- taking the course of "Probability theory and mathematical statistics" as an example [J]. *Journal of Suzhou Institute of Education*, 2022,25 (05): 50-53+92.