

The Study of the Ideological and Political Path in the Teaching of Higher Mathematics

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Abstract: Higher mathematics teaching covers more mathematical concepts and formulas. In the process of teaching, teachers adopt traditional teaching methods; put most of the class hours on the interpretation formula and let the students apply the formula, but ignore the teaching of mathematical thought and ideological and political education contained in the concept of mathematics. This paper expounds the ways and significance of organically combining higher mathematics teaching with ideological and political education from many aspects, to promote teachers to teach and educate people. Therefore, based on analyzing how higher mathematics teachers improve their ideological and political consciousness, this paper discusses the ideological and political path in higher mathematics teaching.

1. The significance of integrating ideological and political Education into higher Mathematics Teaching

Nowadays, the material conditions and living environment of college students have undergone profound changes, but their outlook on life and values have not completely finalized. All kinds of western thoughts are imperceptibly affecting them, and all kinds of temptations are bewitching them. College teachers have heavy teaching and scientific research tasks. The innovation of ideological and political education methods for college students should be combined with the present situation of educational development, follow the relevant principles and laws, and adjust the principles and mechanisms of education in time to make them develop in a healthy direction.

When students first enter campus, great changes have taken place in both living environment and learning methods. In terms of life, far away from parents' careful care, new environment, relatively free life, without teachers, parents' supervision, testing the independence of every student. At the same time, their outlook on life and values has not completely finalized, a variety of trends of thought is imperceptibly affecting them, and all kinds of temptations are bewitching them. It hoped that through the extension of some knowledge and concepts in the curriculum, students can guided to establish correct. The outlook on life, world outlook and values convey positive energy in the classroom.

Colleges and universities must strengthen the ideological and political education of the students in school, break through the traditional theoretical education, introduce the educational idea of practical education in teaching, and combine the theory and practice perfectly. Taking the higher mathematics course as an example, the higher mathematics course is mainly a basic course for the first grade students of the university, and tries its best to excavate the ideological and educational materials of the teaching materials under the premise of successfully completing the teaching task. Combining the teaching of higher mathematics with the ideological and political education of students organically and integrating ideological and political education into higher mathematics education can not only impart morality in teaching, but also complement each other. Students have received ideological and political education. Education, the establishment of a correct world outlook, outlook on life and values, but also correct the learning attitude, improve the enthusiasm of learning, can receive a good teaching effect.

The integration of ideological and political education into higher mathematics courses has the following advantages: First, the popularization of higher mathematics is an important basic theoretical course for students of economics and science and engineering major in colleges and

universities. The course of higher mathematics opened in the first and second semester of the first year of college, mainly facing the freshmen who have just entered the university campus, which lasts for one year, and has a large influence and a wide range of influence. The integration of ideological and political education into higher mathematics curriculum, students can be good values. The formation of the outlook on life plays a supervisory role. Ideological and political course plays an irreplaceable role in the correct formation of college students' world outlook, outlook on life and values.

2. The content advantage of higher Mathematics course

The course content of higher mathematics is rich, and the main melody promoted from the angle of higher mathematics course, which can create a good range of public opinion for college students' ideological and political education. Speaking of the continuous concept, the emphasis on time is continuous, to let the students cherish the time during the university, grasp the four-year college life, can't let anything, any bad habits become the break point that breaks the perfect campus life; and at the same time, life is continuous, cherish life, Don't touch the problem and go to extremes. Once a break point is present, it is impossible to add it to a continuous one. In the section of the vector algebra and space geometry of the higher mathematics course, our teaching masters Professor Yang Jin yuan has given the classical Chinese dream coordinate interpretation method. The three coordinate axes in the coordinate system are defined as national coordinates, social coordinates and personal coordinates, How to accumulate the positive energy, how to deal with negative energy, how to spread the positive energy, and gradually build the correct socialist core value. The development of the Chinese dream provides a good opportunity for the work of the ideological and political education of the college students, and the ideological and political educators in colleges. In addition, universities need the science to the point of engagement between the Chinese dream and the ideological and political education of the college students is to lead the innovation of the ideological and political education of the college students in the Chinese dream

3. The present situation of “thinking and political entering the classroom” in higher Mathematics Teaching

Outside the “ideological and political” education team, according to the traditional concept, ideological and political education should take the party and government cadres and Communist Youth League cadres. Ideological and political theory teachers, counselors and psychological counseling teachers as the main body to strengthen students' ideological and political education through admission education, thematic class meeting, weekly meeting class, special lectures, group class, party class and related community activities. Mathematics teachers only talk about mathematics, but have nothing to do with thinking about politics.

In addition to the content of “ideological and political” education, high number teaching embodies the system of knowledge, the rigor of thinking and the logic of methods, whether it is the preparation of syllabus or the preparation of lessons. Lack of deep excavation “high number” and “ideological and political” content, ideological and political education can integrated into the higher mathematics teaching there are doubts and puzzles.

In addition to the educational behavior of “thinking and politics”, knowledge imparting, scientific research work and academic level pursuit of perfection are the embodiment of mathematics teachers' dedicated behavior. However, in the face of students, there are some phenomena, such as the actual teaching is not rigorous, the classroom discipline not ignored, and the teachers and students are “the same passers-by”, especially the behavior that is inconsistent with the teacher's identity.

In addition to the quantitative evaluation system of ideological and political education, the current “ideological and political into the classroom” is the focus of teaching work. However, when it comes to people, classes, how to evaluate the effect of ideological and political education, there is no standard for quantification and evaluation. Only in the school mobilization meeting, the

department issued tasks, teaching, and research room specific to people, to the course of the process, powerless. Rely entirely on the teacher's consciousness, or deal with the inspection, "make up the number".

4. Current difficulties and solutions

First, the understanding of individual teachers is not yet in place. They feel that ideological and political education is only the task of ideological and political teachers and counselors. Therefore, it is necessary to change teachers' thinking and establish the belief that all teachers should have the responsibility and belief of building morality and building people. Teachers can urged to combine ideological and political education with curriculum education by adding the assessment factor of "curriculum ideological and political" in the assessment and evaluation of teachers. Realize the glorious mission of both teaching books and educating people.

Second, there are not enough cases of thinking and politics in higher mathematics courses, mainly because the basic courses in many vocational colleges are facing the reality of concessions to professional courses and are gradually reduce, especially in higher mathematics courses, and a lot of knowledge needs to convey to students. In the face of less class hours and more content, many mathematics teachers will attach importance to teaching students mathematical theory first and have time to integrate into ideological and political elements. Therefore, it will lead to the real integration of ideological and political elements and cases, for this kind of situation, we can make full use of the activities of the teaching and research room, collective preparation of lessons, by means of old bring new, discuss with ideological and political teachers, excavate ideological and political elements, and integrate into classroom teaching. I am in school.

Third, the integration of ideological and political elements is not very appropriate, curriculum ideological and political elements is not a new course, should not be rigid, in order to integrate, but should be imperceptibly expressed in the process of knowledge transfer. So that students can not only explicitly learn mathematics curriculum knowledge, but also invisible to good ideological and political education, teachers can use cloud platform, learning pass and other information means to display ideological and political elements. Through the means of case teaching, we can reflect the element of thinking and politics, make use of the second classroom, and expand the platform of ideological and political thinking of the curriculum, and so on.

5. Matters needing attention in integrating ideological and political Education into higher Mathematics Teaching

When integrating ideological and political education into the teaching process, we cannot put the cart before the horse. The content and information of each course of college mathematics are very much, and the content is relatively Abstract, which is a difficult course for most students to master. If teachers spend too much time and energy on ideological and political education in the teaching process, and ignore the explanation of the content of the curriculum itself, they cannot only fail to achieve the purpose of ideological and political education for students, but also play a counterproductive role.

It is better to say than to teach by example, and teachers are the key to ideological and political education. Teachers should improve their own ideological and political level; strengthen their own moral cultivation, care about national affairs, care for their students, and deal with teaching material knowledge from the point of view of dialectical materialism. Teachers should fully understand the basic system of mathematics and the history of mathematics development, carefully prepare every class before class, carefully design blackboard writing, fluent and attractive language expression, make students feel the personality charm of teachers, feel the rigorous beauty of mathematical knowledge, the beauty of harmony, and cultivate the sentiment of students.

We should carefully analyze the contents of teaching materials, find the link point between ideological and political education and teaching content, and pay attention to the moderation of ideological and political education. Not all the chapters in the mathematics teaching materials must

excavate the ideological and political elements, and the teaching contents that do not have the function of ideological and political education should not be far-fetched. Teachers should pay attention to grasp the opportunity of ideological and political education, do not insist on inserting some unnecessary preaching, so that ideological and political education is a mere formality.

6. The path of thinking in higher Mathematics Teaching

6.1 Unity of thought

It is necessary to thoroughly study and understands the spirit of the National Conference on Ideological and Political Work in Colleges and Universities carry out the fundamental task of building up people by virtue. Dig deeply into the educational functions of the teaching taught and the various teaching links, and form a pattern of coordinated education between the teaching taught and the ideological and political teaching, to realize all-round, all-staff and all-process education in the main channels of classroom teaching.

6.2 Guiding the teaching staff to set up a new concept

Professional or basic course the teacher is the dominant of the implementation of the class teaching. Therefore, it is necessary to change the concept of the teacher's light value lead, the knowledge transfer and the ability culture, to guide it to set up the “ideological and political education” 's idea as soon as possible, and to make the teacher really finish the mission of teaching and educating people through the channel and the means.

6.3 Implementation of specific actions

First, make clear the training goal of professional talents, sort out the goal of higher mathematics teaching quality, ideological, and political education, and write the teaching ideological and political goal into the teaching standard. Second, deeply excavate the ideological and political elements in mathematical knowledge and find the starting point; third, integrate the ideological and political cases and elements into the teaching plan and courseware to carry on the teaching practice; fourth, formulate the targeted assessment and evaluation standard. Finally, timely summary, draw lessons, refine the results.

6.4 Keep pace with the times and optimize the ideological and political education approach

The formation of correct world outlook, outlook on life, political view and morality is the comprehensive crystallization of many kinds of education. At the national conference on ideological and political work in colleges and universities, Xi Jin ping stressed that it is necessary to persist in taking Li morality and building people as the central link, run ideological and political work through the whole process of education and teaching. Realize the whole process of educating people, educate people in an all-round way, and strive to create a new situation in the development of higher education in our country. Higher mathematics teachers should fully realize that teaching and educating people is the natural duty of every educator, infiltrating ideological and political education in mathematics teaching is a powerful supplement to the work of ideological and political cadres and teachers in colleges and universities, and is the optimization and integration of ideological and political education in colleges and universities. Political education is of practical and far-reaching significance.

6.5 Deepen the reform and promote the organic combination of “high number and ideological and political” education

Xi Jin ping pointed out at the National Conference on ideological and political work in Colleges and Universities that to do a good job in ideological and political work in colleges and universities should be done because of events, according to the times, and new because of the situation. In order to make good use of the main channel of classroom teaching, the course of ideological and political theory should persist in strengthening in the course of improvement, enhance the affinity and pertinence of ideological and political education, and meet the needs and expectations of students'

growth and development. All other courses should guard a section of canal and plant a good field of responsibility, so that all kinds of courses and ideological and political theory courses can go hand in hand and form the same effect. Higher mathematics teachers not only have the knowledge reserve of preparing lessons before class, teaching between classes and supervising after class, but also have rich moral education in exploring mathematics knowledge.

6.6 Perfect the system Construction and promote the Teaching Reform of “thinking and Politics in High number courses”

Education is the foundation and the system is the guarantee. The department should regularly evaluate the implementation of curriculum ideological and political work, establish a dynamic, regular and rolling evaluation model, so that the ideological and political education function of higher mathematics curriculum can integrated into the whole process, all elements can be checked and supervised, timely propaganda and recognition, and supervision and rectification. Taking teachers' participation in curriculum ideological and political teaching reform and curriculum ideological and political effect as an important basis for teacher assessment and evaluation post-employment evaluation of excellence and selection and training; reforming students' curriculum learning evaluation mode. Bringing the teaching objectives of value leading, knowledge transfer and ability training into students' curriculum learning evaluation; promoting curriculum ideological and political education and teaching the effect of academic reform is included in teacher performance evaluation.

7. Conclusion

There are many high number courses, only let each course educate people, every teacher bear the responsibility of educating people, realize the whole staff education, Omni-directional education. whole process education, can we better break the dilemma of ideological and political course teachers “fighting alone”, university ideological and political course “isolated island”, effectively achieve moral education first, so that high number courses can go hand in hand with ideological and political theory course, and form a synergistic effect. We should not only firmly grasp the core position of ideological and political theory course, but also give full play to the educational value of all other courses. Only in this way, can we really realize the integration of explicit education and hidden education, and realize the creative transformation of ideological and political education from a special person to a whole staff.

Under the new situation, mathematics teachers should constantly strengthen their own ideological and political quality, deeply understand the connotation of curriculum thinking and politics, change teaching ideas. Integrate curriculum thinking and politics into the teaching reform of higher mathematics courses, constantly innovate, dare to practice, and make their due contributions to the realization of the whole staff, Omni-directional and whole process of educating people.

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