

The Role of Discipline Contest in University Education

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Abstract— In order to cultivate high-quality talents with innovative spirit and practical ability, Zhejiang University of Science and Technology aims to expand the comprehensive quality of undergraduates in practice education and teaching, focusing on innovation education and actively promoting discipline competition. The competition has stimulated the students' innovative thinking, greatly improved the students' innovative ability and the practical ability to solve the concrete problems. It has promoted the construction of the style of study style, promoted the reform of the curriculum system, and laid the students into the society more quickly.solid foundation.

Index Terms— higher education, college student achievement, subject competition, teaching reform

I. INTRODUCTION

In order to cultivate high-quality talents with innovative spirit and practical ability, Zhejiang University of Science and Technology aims to expand the comprehensive quality of undergraduates in practice education and teaching, focusing on innovation education, starting from student training and actively promoting discipline competition. Improve the scientific literacy of college students and provide a broader stage as soon as possible.

Discipline competition is an important part of the integration of practical teaching and teaching inside and outside the class, is an important way to carry out innovative talents training. The purpose of the school to carry out the competition is to give college students a platform to show the development of individuality and practice innovation, and to cultivate and improve students' innovative thinking, innovation ability, team spirit, practical problems and practical ability.

The subject competition is based on the close combination of professional classroom teaching on the basis of the competition method to stimulate student theory with practical and independent work ability, through practice to find problems, solve problems, enhance student learning and work self-confidence series of activities. "In the same way," the training of students' professional knowledge, but also cultivate their professionalism, but also improve the competitiveness of students in the employment. College students in the organization of all kinds of competition, take full account of the relationship between competition and employment, and students in close contact with the establishment of professional practice base to guide students to competition projects and the actual needs of the combination of students for innovation and entrepreneurship.

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II. SUBJECT COMPETITION TO STIMULATE STUDENTS' CREATIVITY

Innovative education is based on the cultivation of contemporary college students innovative spirit and innovation ability as the basic value orientation education. The traditional education system is no longer adapt to the training requirements of innovative talents in the new period, there is a more emphasis on the imparting of knowledge and training of light ability and quality, not enough attention to the practice of training, not enough attention to the development of student personality and so on.

How to cultivate innovative talents is an important subject that colleges and universities need to be solved at present. It is an effective means to cultivate college students' innovative ability by actively organizing and encouraging college students to participate in subject competition. College will be the discipline competition mechanism into the personnel training program, the competition and the normal teaching links, such as production practice, curriculum design and other comprehensive consideration, encourage students to learn more active participation in the discipline competition. Zhejiang Institute of Science and Technology Institute of the classic events, including Zhejiang Province, multimedia works contest, Zhejiang University Student Electronic Design Competition and Zhejiang Province, such as programming competition. By participating in the multimedia works contest, you can greatly improve the computer and digital media and other professional students multimedia design and production level, cultivate college students' innovative consciousness and ability. Electronic Design for College Students Competition is one of the four major disciplines advocated by the Ministry of Education. The aim is to promote the construction of electronic information specialty and curriculum in accordance with the principle of closely combining teaching practice, focusing on the foundation and paying attention to the frontier, and guiding colleges and universities to cultivate college students To enhance the students' ability to cultivate hands-on ability and training in engineering practice, to improve students' practical ability to design and produce electronic products for practical problems. To attract and encourage students to participate in extracurricular scientific and technological activities and to create conditions for talents to stand out The Through the design competition, we can cultivate the innovative thinking of college students and use the computer to analyze the problem, solve the problem, improve the comprehensive quality of college students, promote inter-school communication, improve the computer application of college students, enrich the campus academic atmosphere. Participate in the competition students are from the completion of the normal teaching students in the selection

through the selection, they both have excellent academic performance, but also a strong practical ability. We have also arranged short courses such as electronic production, electronic competition training, research and development practice and so on to improve the ability and level of students to participate in the electronic design competition. After a period of specialized training, the students' hands-on ability and team spirit have been better promoted, for their future to further study or join the professional work to lay a solid foundation, therefore, attracted a large number of students active Sign up for all competitions and corresponding short term courses.

III. COMPETITION PROMOTES TEACHING REFORM

If you are using Word, use either the Microsoft Equation Editor or the MathType add-on (<http://www.mathtype.com>) for equations in your paper (Insert | Object | Create New | Microsoft Equation or MathType Equation). "Float over text" should not be selected.

The traditional teaching content system and the teacher's educational concept all have the emphasis on the theory and the tendency of light practice, often put the practice teaching in the subsidiary, subject to the theory of a subordinate position. However, the social development is to require higher education to cultivate the contemporary college students should have a reasonable structure of knowledge and ability structure and quality structure, the most important of which is the practical ability and social adaptability, which requires the need to reform the existing practice teaching system, And earnestly promote the improvement of teachers' practical teaching level.

College students to participate in the subject competition, the need for teachers before the counseling, through the teacher counseling students participating, so that the traditional concept of education gradually changed, recognizing the practical teaching to cultivate students the importance of innovation, awareness of the change, so that teachers teaching content And then confined to the rules of the book, but to strengthen the practice of teaching, and therefore, in the teaching process will be more emphasis on cultivating students to consider the issue and the courage to practice.

The competition is an important part of practical education. It is one of the important carriers to cultivate "three talents". It can test the quality and effect of theory teaching and practice teaching through disciplinary competition, promote the interaction between teaching and learning, teachers' research and students Research interaction. Through a variety of incentive mechanisms and the establishment of the practice base, the emergence of a number of college students competition for the training of teachers, most of them are "double teacher" teachers, has a wealth of professional experience and higher teaching level, they Teaching methods and teaching content and effect for the first classroom practice teaching provides a good reference to promote the practice of teaching reform.

In the course of many years of competition, we found that the existing curriculum architecture needs to be reformed to provide students with better help in the professional skills development.

We have the subject competition as the carrier, the traditional curriculum of the trade-off, the new technology, new theory

has been added. At the same time, to adjust part of the basic course of the semester, for the lower grades of students to participate in various disciplines to create opportunities in the competition, so that students can begin in the sophomore year to learn professional knowledge of practical application, the creation of multimedia works, Electronic system design and other innovative practical activities.

IV. CONCLUSION

The competition has stimulated students 'innovative thinking, the ability to cultivate students' innovative ability, professional application ability, scientific research ability and practical ability to solve specific practical problems, and promote the construction of fine style of study style, strong campus academic atmosphere and cultivate team spirit An important impetus.

The cultivation of students' innovative ability into professional teaching system has led us to adjust the existing resources so that the subject competition system can be further integrated with the teaching system. In order to cultivate "application type, compound type and innovation type" talents, promote discipline construction and teaching Reform to create favorable conditions. The demonstration and guiding effect of the subject competition, but also effectively promote the discipline construction and professional teaching, to promote the curriculum system, teaching content and methods of reform, advocated the theory of practice with the actual style of study.

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