Research on Innovation Ability of College Students in place to build a multidimensional practice platform

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Abstract—The innovation practice ability is college students need to learn and master one of the most important ability, practice teaching is an important part of the social talent cultivation. The purpose of this study is to explore college students' innovative ability in local colleges' practice of construction of multi-dimensional practice platform. Through the related literatures and the practice of research methods, finally concluded on the basis of the present situation of the innovation ability training, and combining with the characteristics of agricultural universities and athletic practice platform, combining practice with theory course platform, and innovative scientific competitive platform integrated platform, proposed pluralism, multi-dimensional innovation ability training practice platform, thus promotes the cultivation of students ability to innovate and development.

Keywords—innovation; multidimensional practice platform; local agricultural college

I. INTRODUCTION

In the history of the development of thousands of years in our country, there are a lot of ideas and methods to cultivate the ability of single innovation. Two thousand years ago, Lao Tzu in the "moral" in the book is put forward: "the world was born in all things, was born in" the creative ideas; in ancient China, a famous educator Confucius put forward "teaching students in accordance with their aptitude" and "heuristic teaching thought, has in Education still has a far-reaching influence on the. At the beginning of twentieth Century, Tao Xingzhi, a famous educator in China, first introduced the "creation" into education field. He proposed to cultivate people who have "creative spirit" and "spirit" in the "first flow". The party's "Sixteen big" report also clearly stated: "innovation is the soul of a nation's progress, is an inexhaustible motive force for the prosperity of a country." However, nowadays in the educational world, the method of the cultivation of innovation ability is too scattered, lack of unified system platform. Therefore, it is very important for the construction of the innovative ability cultivation of the dimensions of practical platform.

II. CURRENT STATUS OF RESEARCH ON INNOVATION ABILITY IN CHINA AND ABROAD

A. The Status of Foreign Studies

With the development of the three industrial revolutions, the European advanced developed countries, such as the United States and Asia Japan and other countries attach great importance to the cultivation of national innovation ability[1].

1) Countries Pay Attention to Set up the Right School Idea

American Harvard University attaches great importance to the training of compound talents. 1976 Harvard College of Arts and Sciences proposed book report on the core curriculum, made clear a Harvard education philosophy and purpose is "culture in the 20th century educated people". And pay attention to the cultivation of thinking clear, sharp thinking ability and writing ability; have extensive knowledge in some areas, correct judgment and understanding ability; diligent in thinking, moral and ethical problems, can make the proper moral choices; rich life experience. Requires the whole school undergraduate students must take 8 courses in ten major categories of core courses within four years. It includes six disciplines, namely: speculative literature and art, foreign culture, ethical, social and historical research, analysis, science[2]. Therefore, the student period, the emphasis is not the conclusion but the method theory, is the foundation and the compound, and is to the student interest and the interest the training. Japan attaches great importance to the cultivation of students' Waseda University learns in order to practice a unique personality. In May 1998, currently Japan Waseda University President Takayasu's in the centennial anniversary of Beijing University said: "Early Rice University concept is to cultivate students' independent personality. We believe that the academic should not be influenced by the political or economic
or foreign countries. It is not for learning but for students to practice, to create a model citizen, that is, the world's universal, has the ability, the high level of talent for the society. From the [3], it can be seen that the Waseda University in Japan advocated academic independence, and social and time synchronization, so that education and academic services to the prosperity and progress of the home and society. This is one of the most successful and important guarantee for the talent training and academic research in Waseda University.

2) Continue to Explore Innovative Teaching Methods

"In the industrial society, science and technology are the rational basis of profound knowledge," says Rodgers, founder of the Massachusetts Institute of Technology. Students will benefit from the trend towards a useful goal. [4] "This kind of values in the world is being touted as a source of new ideas, new energy and new ways. In the course of Massachusetts Institute of Technology undergraduate course arrangement has been followed "the more the more the principle". Try to reduce the required course, increase the elective course, and increase the elastic time. At the same time, the United States Harvard University undergraduate students do not choose professional, after a year to decide the main direction of attack, in this year, the school set up courses are open to students, and students can enter any class at any time. If students are not satisfied with the school curriculum, can be their own design professional, detailed written in the course of interest and plan, will be submitted to the Academic Committee for approval, approved by the school will be based on the professional composition of interdisciplinary committee, to guide students to learn. Schools offer courses are also a wide variety of new opportunities, there are counseling, testing, lectures, seminars, mock court, case studies, project research, role play, etc., are closely linked with the future work of the course.

3) To Strengthen the Teacher's Innovation Ability

Open communication is an important measure to improve the quality of teachers. In the United States 125 research universities, the traditional concept of scientific research in the teaching of teachers does not serve as a teaching task. At present, the situation has changed, more and more colleges and universities pay more attention to undergraduate education, such as Kennedy college, Harvard University, 48% of teachers undertake teaching tasks, and at the same time undertake the task of scientific research, 52% of teachers engaged in academic research. For this situation, it is now required to write a high quality of the academic community in the academic community to set foot on the teaching staff, teaching staff. So as to improve the quality of teachers and to make new scientific research results into the classroom continuously. In addition, it is also encouraged to teach the famous professors and scholars, especially for the low grade students, for the students to teach the subject frontier and the development direction. Cornell University and the Temple University, Philadelphia, also has a special set up the outstanding teacher award, to encourage old scientists and professors to return to engage in teaching. Focus on the cultivation of new type teachers, to prevent "inbreeding", University of Munich, absolute don't hire in the school or a world famous University PhD and without any experience to teach the so-called talents to teach.

B. Domestic Research Status

From the middle of 1980s our country has promoted the initiative to develop students' creative ability, but on the training of students' innovation ability, or in 1990s after. For 10 years, some scholars from China's actual situation, to take the localization and internationalization "strategy", tracking the international development research, also made some achievements.

To Zhang Baochen, Li Yan, Zhang Peng, etc., to represent the creative ability is the individual use of all known information, including the existing knowledge and experience [5], produce a unique, innovative, social or personal value of the product's ability to [6]. It includes three parts, such as innovation consciousness, innovative thinking and creative skills, the core is the innovative thinking [7]. To An Jiangying, Tian Huiyun and other representatives, that the innovation ability of the performance of two interrelated parts, part of the existing knowledge acquisition, restructuring and use; the other is the new ideas, new technologies, new products research and invention [8]. Huang Chunlin and some other scholars believe that the knowledge structure of innovation ability should have the knowledge structure, including the basic knowledge, expertise, knowledge or methodology of knowledge, knowledge and comprehensive knowledge and so on [9]. In spite of the different ways of expressing the innovation ability, it has already explained the connotation of innovation ability.

III. THE CONSTRUCTION OF COLLEGE STUDENTS INNOVATION ABILITY OF MULTI DIMENSIONAL PRACTICE PLATFORM

A. The Construction of Disciplinary Competitive Practice Platform

It is well known that the discipline competition has the high intensity of the practice; therefore, the construction of effective practical platform is the necessary condition for the cultivation of College Students' comprehensive ability. To this end, the school should build a platform for the students to build a competitive platform, which includes scientific and technological innovation, scientific research activities and comprehensive ability training activities, etc... Practice platform structure should be geared to the needs of teachers and students to open, also in the background to ensure that point, line, surface covering the full range of, realizes the entire school teachers and students to share the platform resources, provide simulation activity of innovation of science and technology, experimental teaching activities for teachers and students and provide adequate resources, thereby contributing to the ability of the system to improve the school teachers and students of today, improve the advantages of running the school. In addition, colleges and universities should also improve the construction of discipline competition platform, through cooperative education, to achieve resource sharing, to cultivate students' innovation ability.

B. Construction Practice and Theory of Curriculum Platform

Now university curriculum system theory course in proportion is much larger than the class practice, continuously for a long time, ignored the students' practical ability, is not
condusive to the cultivation of students' innovation ability and divergent thinking. Therefore, in the curriculum system settings, it can be a combination of theoretical and practical courses. Such as plant protection and animal medicine specialty in agricultural colleges and universities opened in addition alone will theory course and practice course is divided into lecture award, will be teaching place not only in the teacher, in teaching the course of plant protection, transferred to the outdoor classroom, in front of the campus plants of theory teaching and let the students experience the practice, the practice and theory course will combine the teaching mode will be more helpful for students to master the knowledge, but also can help students make discovery problem, conducive to the cultivation of innovative ability.

C. The Construction of Innovative Scientific Competitive Platform

Scientific and technological innovation is an important way to cultivate college students' comprehensive quality, and it is the way to improve the competitiveness of the society. The construction of innovative scientific competitive platform helps to cultivate the innovative talents needed by society. Construction of the platform needs professional teachers, need to select with passion and ability of students, so as to form the scientific and technological innovation team, to the domestic and foreign innovation technology competition system, and then carry out various types of innovative science competitions in the school, continue to foster the team members of the innovative consciousness and innovative ability, the ability of students, values and way of thinking and so on.

D. Building a Platform for Industry and Research

Innovation is based on practice. Colleges and universities need to combine their own characteristics and advantages with social practice, so as to improve students' creative ability, work ability, and to improve the students' satisfaction. To carry out scientific research projects and research projects, the use of internal resources and enterprises, scientific research units and other resources to cultivate innovative talents, with the community and various business cooperation, will be based on the knowledge of classroom teaching and direct cultivation of practical ability, practical experience based production, scientific research, and promote the school enterprise cooperation system and innovative talents training mode, open university students innovative practice ability training, to provide support for multi-dimensional practice platform. Strengthen students' innovation consciousness; improve the students' innovation ability.

E. UNESCO has been called the entrepreneurial ability to learn the third passports, which is the ability to develop after the academic ability of the students to develop third kinds of capacity [10]. Nowadays because the awareness of college students' entrepreneurship is weak, this should be strengthened. Therefore, as a kind of local agricultural colleges and universities, to actively carry out entrepreneurship education, training students innovation and entrepreneurship awareness, spirit and ability. To open up business class guidance, innovation and entrepreneurship competition, to encourage students to participate in innovative projects and college students innovation and entrepreneurship competition, the establishment of innovation and entrepreneurship platform, the establishment of College Students' entrepreneurship Park, in order to provide the appropriate venue, funding and professional consulting services for students aspiring to innovate. As our campus art major students to participate in the "blue dream orchard Co., Ltd. business plan book" get in Jilin Province, the fourth session of the college business plan competition Bronze Award.

IV. CONCLUSION

Strengthening the construction of multi-dimensional practical platform is an effective way to improve the students' innovative ability and practical ability. It is one of the effective ways to improve the students' ability to innovate. To strengthen the construction of multi-dimensional practice platform, we need build a good learning atmosphere; strengthen cooperation between enterprises; to provide students with full practice. In addition, the local government should increase the support for innovation and entrepreneurship of college students, from the perspective of funding, venues and professional guidance to provide appropriate policy support. However, as the main local colleges and universities of training talents, we also should set up the university students’ innovation and entrepreneurship center, to provide a platform for college students to simulate and innovate, encourage college students to improve their ability of innovation and entrepreneurship.

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