

Practical Exploration of Cultivating College Student's Innovation Ability: A Case study of School of Economics and Management of Jilin Institute of Chemical Technology

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Abstract. Cultivation of college students' innovation ability is a necessary condition for building an innovation-oriented country and a strong country in science and technology. This paper takes School of Economics and Management of Jilin Institute of Chemical Technology as an example. From the aspects of constructing innovative education system, creating innovative practice platform, organizing and participating in scientific, technological innovation competition, innovating the work of student management, this paper explores new ways to cultivate college students' innovative ability.

Introduction

As a great country with a history of civilization of 5000 years, China has created a world-renowned ancient civilization, which fully demonstrates the wisdom and innovation of the Chinese nation. Under the current economic globalization background, the overall development of countries' comprehensive strength depends on the number and structure of talents, and the quality of talents is more crucial. 《Higher Education Act》 of People's Republic of China clearly stipulates, the task of higher education is to cultivate senior professionals with innovative spirit and practical ability, develop science, technology and culture, and promote socialist modernization. It is an important task for colleges and universities to cultivate young students with innovative thinking and ability in the new era. This paper starts from the premise and approach of cultivating the innovation ability of college students, takes School of Economics and Management of Jilin Institute of Chemical Technology as an example, combining with the characteristics of college students' innovation ability training, explores a new way of college students' innovation ability training.

Innovation Consciousness is the Premise to Cultivate the Innovation Ability of College Students

When General Secretary Xi Jinping attended the forum of outstanding youth representatives from all walks of life, he pointed out that all the young students must have the courage to innovate and create. Innovation is the soul of national progress, an inexhaustible source of national prosperity, and the deepest national endowment of the Chinese nation. Just as the saying goes, every day is new and every day is new. Life does not favor those who are conservative and satisfied with the status quo and does not wait for those who are unenterprising and enjoying the fruits of success. Instead, life leaves more opportunities to those who are good at innovating and brave enough to innovate. As the most dynamic and creative group in the society, young people should take the lead in innovation and creation. [1] General Secretary has put forward expectations and requirements for the young students from the height of national development strategy.

1. New Mission of Higher Education

In the 19th CPC national congress, General Secretary Xi Jinping defined the historical positioning of socialism with Chinese characteristics entering a new era, proposed that the major social contradictions in China have undergone new changes, and proposed that priority should be given to the development of education cause, the building of a strong education country should be taken as the basic project to realize the great rejuvenation of the Chinese nation, which marks the development of education cause of socialism with Chinese characteristics entering a new stage, endows new features, new missions and new requirements for the development of China's higher education. [2] Scientific and technological innovation is the strategic support for improving the productive forces and overall national strength and must be placed at the core of a country's overall development. [3] Technological innovation needs innovative talents with innovative ideas and abilities. Material is the basis of consciousness, consciousness is the premise of forming thought and sublimating into spirit. Consciousness is the primary stage of thought formation, and higher education institutions are places for preaching, imparting knowledge and solving doubts. Therefore, it is very important to inspire and activate college students' innovative consciousness by classroom teaching and guidance.[4] Universities are also duty-bound to undertake this new mission.

2. New Requirements for The Development of Higher Education

"Accelerating the construction of first-class universities and disciplines and realizing the connotative development of higher education," said the 19th CPC national congress report. Higher education has entered the popular education stage from elite education, but now the severe employment situation puts forward higher requirements for college students.[5,6]The 18th CPC national congress report said that "By 2020, Education level and innovative talent training level will be significantly improved, China will become a strong the state by talents and country rich in human resource, and education modernization is basically realized. There should be more employment opportunities." Therefore, colleges and universities should comprehensively carry out innovation and entrepreneurship education, strengthen the cultivation of college students' innovation and practical ability, and make college students regard entrepreneurship as an ideal choice to realize their life value, which is the effective way to relieve the current employment pressure.[7]

Cultivation of College Students' Innovation Ability should not be a Single Game

Practice is the sole criterion for testing truth. Marxist epistemology introduces the concept of practice into epistemology, and scientifically explains that practice is the basis of cognition, the subject and object of cognition are generated and developed in practice. [8] In recent years, education in Chinese universities has begun to pay attention to comprehensive quality education and practical teaching, but poor practical ability and weak innovation consciousness of young students are still the main problems that university education has to face. This is mainly due to the following two aspects. On the one hand, under the influence of traditional teaching mode and local meme, Chinese college students have always been short of innovative consciousness, which is fundamentally due to the lack of innovative thinking. On the other hand, the foundation of innovative knowledge is weak. First, the curriculum design is unreasonable, and there are problems of knowledge repetition, insufficient cross-knowledge and insufficient innovative knowledge. Second, the old knowledge, there are students do not take the initiative to learn, closed teaching, teaching does not pay attention to the spread of knowledge and so on. Poor innovation achievements: first, the innovation environment is not perfect, there is a big school pressure, practice teaching environment is less, students do not pay attention to the social living environment. Second, the innovation skill is not strong, there is insufficient design ability, poor operation ability, the expression ability is not strong.

Therefore, Changing the education system, innovating education mode and strengthening practical innovation education are the inevitable choices for Chinese universities to cultivate

innovative and comprehensive talents in order to meet the needs of building an innovative country and realize the Chinese dream.[9]

When General Secretary Xi Jinping attended the forum of outstanding youth representatives from all walks of life, he pointed out that all the young people should have the will to make way for mountains and bridges across rivers, go forward and be indomitable when you want to innovate and create. [10] It can be seen that the way to cultivate the innovation ability of college students is not only in colleges and universities, but also all the young students should have the sense of ownership and have the courage to take the lead in the world, have the courage to emancipate our minds and keep pace with times, must be willing to work hard from top to bottom and forge ahead, and on the basis of inheriting the predecessors, build the ambition to surpass the predecessors. If we want to cultivate the innovation ability of college students with half the effort, then the two must be closely combined and complement each other.

Practical Exploration on Cultivating College Students' Innovative Ability

As an ancient saying goes, "the more knowledgeable you are, the farther you will think". However, innovation ability and knowledge cannot be simply equated. If there is no practical link, cultivating college students' innovation ability is probably just "talk on paper". The main ways to cultivate college students' innovation ability are scientific and technological innovation, social practice, innovation base practice and the other methods, extracurricular academic and scientific activities as well as training are also important innovative ways for college students.

1. Construct Innovative Education System

In order to cultivate college students' innovative thinking and innovative ability, first of all, we should have advanced innovative education concept. Teaching and training program of Economics and Management of Jilin Institute of Chemical Technology takes the cultivation of students' practical innovation ability as the guiding ideology, the training objective is to train applied and innovative talents, the basic principle is that students will be the main body, pay attention to the development of personality, guide students to form research, critical, innovative thinking, strengthen learning, practice and innovation ability training, draws up the plan of Outstanding student , carry out the tutorial system, experimental teaching, practical teaching and theoretical teaching are equally treated, let students realize the importance and urgency of innovation, improve students' innovation ability. That's the starting point, with the point belt surface, the resultant effect is formed, cultivates a good innovation education atmosphere.

2. Create a Platform for Innovation and Practice

The innovation practice platform is the practice base inside and outside the school which is established by the school or by the social force jointly, which can provide students with real and cutting-edge knowledge and practice places, the college builds comprehensive laboratories and microcomputer rooms on campus, where students can study and complete some innovative professional designs, or carry out scientific and technological production and research and development activities, then integrate theory with practice, fully mobilize and stimulate students' interest in learning, effectively cultivate students' innovative and practical ability, deepen the cognition and understanding of professional skills, according to the training program, the college sets up cognition training courses, regularly organizes students to go to the internship base for knowledge investigation and practice, which can not only provide a place for students to practice, but also enable students to consolidate the knowledge learned in class in practice, improve students' ability to communicate, analyze and solve problems, and stimulate students' innovative thinking. In a word, by using the innovative practical teaching mode combining "production, education and research", maintaining deeply interaction with cooperative enterprises, making the cultivation of students' innovative and practical ability closely depend on the enterprise, letting students go deep into the production practice of the enterprise, and letting the outstanding talents of the enterprise

guide students to practice and innovate, introducing enterprise projects that keep pace with the times into students' teaching work, the integration of production and education will be realized, which plays an active role in promoting the cultivation of innovative talents with innovative ideas and abilities.

3. Organize and Take Part in Technological Innovation Competition

Technological innovation competition is effective mean to cultivate the comprehensive quality of college students. By organizing activities in the form of competitions, it is helpful for students to form a good style of study which advocates science and pursues true knowledge, It is conducive to cultivate students' innovative consciousness and improve their engineering practice and technological innovation ability, It is beneficial for students to improve their personality, enhance their communication skills, build up their sense of teamwork, and cultivate indispensable qualities and experience. On the basis of various extracurricular scientific and technological innovation competitions, the college actively carries out students' daily scientific and technological innovation activities. In the specific practice process, actively publicize, encourage students to develop innovative thinking, pay attention to the cultivation of students innovative practice ability, teamwork awareness and other comprehensive qualities.

4. Innovate the Work of Student Management

In the context of promoting innovation and entrepreneurship education in Chinese universities, as the grassroots backbone of the ideological and political education work in colleges and universities, counselors play a very important role in guiding, education and cultivating young students. The college is under the leadership of the relevant departments of the leadership of the specific guidance, and under the specific guidance of college leaders, explores new methods of counselors' innovative work by combining theory with practical learning and working methods. As the most grass-roots organizer and implementer of college students' extracurricular academic science and technology activities, it enables counselors to effectively organize and carry out various innovative activities in combination with their majors and students' actual conditions, so as to promote the overall improvement of college students' comprehensive quality.

Conclusions

Colleges and universities cultivate the innovation ability of college students, first is to further clarify the goals and positioning in the development process of innovation and entrepreneurship education. Second, we should pay attention to improve the breadth of knowledge in colleges and universities, and provide broad space for innovation and entrepreneurship education. The third is to improve the education evaluation system, pay attention to the personalized needs of students. Fourth, we should add new and targeted practical learning links, create and display a stage for college students, and stimulate their enthusiasm and desire for innovation. Colleges and universities should be based on their own conditions, based on the reality, which can effectively improve the status quo of innovation and entrepreneurship education development in colleges and universities, enhance Chinese comprehensive education strength, scientific and technological strength and competitiveness in the world in the process of building bricks and stones, so that a strong scientific and technological country will stand in the forest of the world.

References

- [1] Jiang Hongmei. A brief analysis on how to innovate the work of the communist youth league in the new situation [J]. Enterprise culture (next ten-day issue), 2013(8): 43-44.
- [2] Li Yuanyuan. New judgment, new features and new mission of higher education development in China in the new era [N]. China education news, 2017.11.2(6).

- [3] CAI Yonghai, Zhai Jiaming. Discussion on scientific and technological innovation as the strategic core force to realize the Chinese dream [J]. Journal of Jilin normal university (humanities and social sciences edition), 2014(1).
- [4] Zhou Jin. Methods and approaches to cultivate and improve college students' innovation ability [J]. Journal of national education school of administration, 2007, (9): 29-32.
- [5] Wang Rui. Current situation and countermeasures of education career planning for college students [D]. Chengdu university of technology, 2012.
- [6] Chen Liang. Research on the construction of employment guidance system for college students in China [J]. Business information, 2012(21):144-144.
- [7] Ju Liping. Cultivation of college students' innovation and entrepreneurship ability under the background of higher education popularization [J]. Chinese adult education, 2013, (14): 17-19.
- [8] Complete works of Marx and Engels. Volume 23 [M]. Beijing: People's Publishing House , 1972.
- [9] Li Cunjin. Practical approaches and mechanisms for cultivating college students' innovative thinking ability [J]. Innovation and entrepreneurship education, 2013(1): 1-5.
- [10] Cheng Liping. Briefly probes Xi Jinping's concept of youth talent [J]. Journal of youth, 2015(1):24-27.