

Study on the Cultivation of University Teachers' Ability of Innovation and Entrepreneurship Education*

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Abstract—Good ability and potentials of innovation and entrepreneurship education owned by university teachers determines the effectiveness of training of innovation personnel. To improve the ability of teachers' innovation and entrepreneurship education, we need to clarify the essence of innovation and entrepreneurship education and clarify the wrong cognition; we need to clarify the basic connotation of teachers' innovation and entrepreneurship education ability and grasp the key elements; we need to integrate the high-quality resources inside and outside the school, optimize the training path and form a long-term mechanism on the basis of forming a common recognition that "innovation and entrepreneurship can be taught".

Keywords: *university teachers, the ability of innovation and entrepreneurship education, intrinsic power*

I. INTRODUCTION

Against the background of vigorously promoting the construction of an innovative country in our country, it is increasingly becoming an important reform force of college education that cultivates college Students' awareness and ability of innovation and entrepreneurship. The reform plays an important role in promoting the sustainable development of colleges and universities in the future. However, the weak educational ability of innovation and entrepreneurship teachers has become an important bottleneck of deepening innovation and entrepreneurship education reform in Colleges and universities. On the whole, the cultivation of the ability of innovation and entrepreneurship education shows the characteristics of "lack of systematic nature and poor effect ". This is not only the lack of concept cognition, but also the lack of effective methods and measures. Therefore, it is necessary to explore the connotation and training path of the innovative and entrepreneurial teachers'

educational ability.

II. THE ESSENCE OF INNOVATION AND ENTREPRENEURSHIP EDUCATION

To explore the ability of innovation and entrepreneurship education of teachers, we should first understand the growth and talent needs of the objects they serve, and deeply understand the essence of innovation and entrepreneurship education. Undoubtedly, the goal of the work of university teachers is to cultivate qualified builders and successors for the socialist construction to meet the needs of the construction of an innovative country in the new era. It is particularly important to cultivate students' innovation consciousness and entrepreneurship ability. Innovation and entrepreneurship education is necessary for the new stage of China's economic and social development. The economic development gradually changes from factor driven to innovation driven. The new situation of economic and social development requires reform of higher education. Therefore, understanding correctly the connotation of innovation and entrepreneurship education should be grasped macroscopically. This is a profound and extensive education reform. It is a talent training paradigm revolution for all in the whole process. Its essence is to awaken the consciousness of innovation and entrepreneurship of teachers and students, to stimulate the enthusiasm of innovation and Entrepreneurship of teachers and students, and cultivate the ability of innovation and entrepreneurship of teachers and students.

Analyzing the above two questions, it is the key to different opinions that lies in the understanding the concept of innovation and entrepreneurship education. From the perspective of rhetoric, innovation and entrepreneurship education is a combination of two parts. Innovation and entrepreneurship is the attribute of education, and education is the purpose of innovation and entrepreneurship. The essence of innovation and entrepreneurship education lies in "education". The word "education" comes from Latin education. The prefix "e" has the meaning of "out", which means "lead" or "stimulant". Therefore, education is to trigger something that originally lies in the mind of human

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beings through different methods. [1] Initiation and stimulation is the source power of education. Thus, the focus of innovation and entrepreneurship education does not lie in how many enterprises established and how much earned, but in the awareness of innovation and the ability of innovation and entrepreneurship of the students. There are significant differences between the innovation and entrepreneurship activities and the innovation and entrepreneurship education. The fundamental reason why some people question the innovation and entrepreneurship education is to confuse the two concepts. The important function of teachers in colleges and universities is to carry out innovation and entrepreneurship education. Their main responsibilities are to be the leaders of students' innovation and entrepreneurship ideas, the shapers of innovation and entrepreneurship spirit, the disseminators of innovation and entrepreneurship knowledge and the trainers of innovation and entrepreneurship ability. [2] Based on this cognition, the author believes that innovation and entrepreneurship not only can be taught, but also all teachers are responsible for innovation and entrepreneurship education. Innovation and entrepreneurship education is an inevitable requirement of deepening education and teaching reform in Colleges and universities. It must be integrated into the whole process of talent training to achieve full participation.

III. THE CONNOTATION OF INNOVATION AND ENTREPRENEURSHIP EDUCATION ABILITY OF UNIVERSITY TEACHERS

Innovation and entrepreneurship education is the inevitable requirement of talent training. The teachers are the main factor. It is an important aspect what abilities the teachers should possess to meet the needs of innovative talents training? The author thinks that the main ability of innovation and entrepreneurship education for the teachers is as follows.

A. *Ability to insight and aware the development trend of the times*

Innovation and entrepreneurship education is closely connected with the environment of the times. Based on keen insight and profound analysis of the general trend of the world, President Xi Jinping made a significant judgment on the present age: the world is in a great change in the past century. The world is undergoing a new round of rapid development, great change and major shift. The development of human civilization is facing many new opportunities and challenges. A new round of scientific and technological revolution and industrial revolution is unfolding in many respects with artificial intelligence, the internet of thing and life science as a representative. All countries have formulated innovative development strategies for the future. Scientific and technological competition and innovation strength are directly related to the future of a country's economic and social development. The in-depth development of economic globalization has accelerated the reform of global governance. The in-depth development of world multi polarity has made the balance

of international forces more balanced. The intensified strategic game among major powers has promoted the profound reform of the international system.

The international situation is volatile and the situation of uncertainty and instability is increasing. This is the complicated world pattern at present. Internally, our country is in a critical period of struggle from standing up, getting rich to becoming strong. There are many new situations and new problems in social development in the critical period, which require us to have both the strategic concentration of development and the innovative strength of development. Innovation has become the first driving force of social development in China, and has become a fundamental factor related to the future and destiny of the nation. Therefore, for the teachers in colleges and universities, we must have a deep understanding of the world pattern and the changing trend of the current social development in China, and recognize the extreme importance of innovation for the development of the nation. This is not only the basic political literacy that college teachers should have, but also the professional consciousness that college teachers actively adapt to social development and cultivate talents. On the other hand, the teachers should pay attention to study and grasp the frontier trends of disciplines based on the different division of disciplines and professional education. The teachers also should understand the latest concepts and technologies of scientific and technological development, master the core issues in the professional field, and apply the latest learning and research results to education in time.

B. *Ability to impart knowledge of innovation and entrepreneurship*

Innovation and entrepreneurship education has its own discipline knowledge system. At present, colleges and universities at home and abroad mainly have carried out educational activities by constructing and implementing the curriculum system of innovation and entrepreneurship education. The curriculum system mainly includes innovation and entrepreneurship basic courses, entrepreneurship professional courses and comprehensive practice courses. The basic education courses are mainly for all students to disseminate basic knowledge, theories and methods of innovation and entrepreneurship which focus on stimulating students' innovation awareness, inspiring students' innovation thinking, cultivating students' innovation and entrepreneurship spirit, and promoting students to master basic innovation and entrepreneurship knowledge and ability. The professional courses are mainly for the students of different majors, which focus on the cultivation of professional talents, integrating innovative and entrepreneurial education elements into the professional course education and teaching to achieve the goal of integrating all elements into professional education. The innovation and entrepreneurship practice courses aims to strengthen the training of students' innovation and entrepreneurship practice ability through various lectures, competition activities, scientific research training, internship training, social practice, project incubation, etc. For college teachers, they should not only master the basic knowledge

and methods of innovation and entrepreneurship, be able to undertake the education and teaching of corresponding courses, and carry out various forms of innovation and entrepreneurship activities and event guidance, but also be able to adapt to the development needs of new times. On the basis of fully analyzing the development characteristics of current students, they should be devoted to stimulating the students' initiative and participation in learning by modern education methods, case teaching, project training, discussing problems, role-play., scenario simulation and other effective methods.

C. Ability to guide practical training of innovation and entrepreneurship

It is the remarkable characteristic of innovation and entrepreneurship education to pay attention to the cultivation of students' practical ability. For teachers, they need to have some ability of practical demonstration. Teachers should be able to master the basic methods of innovation and entrepreneurship. In the process of teaching and practical activities guidance, they should apply comprehensively the methods of innovative thinking, such as brainstorming, six hats, positive thinking, and reverse thinking, etc. to break the thinking set and cultivate the students' critical thinking. At the same time, teachers should master the basic process of enterprise operation, take problems as the guide and project as the traction, and inspire students to find various problems in professional fields and social life, and analyze problems by using a variety of methods and solve them. In all kinds of innovation and entrepreneurship practice training, teachers should be good at designing projects, inspiring students' thinking, leading and encouraging students to use their brains and hands to help the students to improve effectively their practical ability of innovation and entrepreneurship in participation.

D. Ability to motivate students' enthusiasm in innovation and entrepreneurship learning

Motivation is an internal source of power that affects a person's sustainable development. It is the teachers' duty that engages students' potential motivation in innovation and entrepreneurship education. Effective stimulation requires teachers to have appropriate and feasible evaluation methods. In the innovation and entrepreneurship education, the important role of teachers is to be an excellent coach, which focuses on guiding and stimulating students' innovation consciousness and spirit, encouraging students to actively participate, actively learn by doing, and improve their quality and ability in practice. Teachers should have a strong assessment and evaluation ability. In the assessment of innovation and entrepreneurship education, it is necessary to combine the process assessment with the result assessment closely. In order to do this work well, it is necessary to design a detailed process assessment scheme, which including classroom training, event participation, project training, scientific research, etc. Moreover, the assessment is approved by the students through strict implementation. In addition, we should pay attention to the timely feedback of students' learning and training, and form

a good mechanism of teaching, assessment, feedback and improvement.

E. Ability to shape students' personality in innovation and entrepreneurship education

Personality is a kind of psychological structure that can make people's behavior show the characteristics of stability, durability, persistence and consistency. It is the basic factor of personality composition. It is the soul of innovation and entrepreneurship education in colleges and universities to cultivate college students' innovation and entrepreneurship personality. In China, innovation and entrepreneurship talents are usually defined as "having a solid theoretical basis, a reasonable ability structure and a sound innovation and entrepreneurship personality, being able to break the routine with innovative thinking and create new achievements, new technologies or new methods." And the innovative achievements into entrepreneurial activities will promote social progress and high quality development. [4] Innovative entrepreneurial talents have significant personality characteristics, such as an open vision, a broad mind, a strong sense of mission, a high sense of responsibility, firm faith, strong will, the courage to innovate and dare to fight, strong team cooperation, courage to face difficulties and so on. University teachers should have the ability to shape these personality traits of students, and integrate the cultivation of students' innovative and entrepreneurial personality traits into those activities including curriculum teaching, event activity guidance, cultural atmosphere building, ideological and political education and others.

IV. THE WAY TO CULTIVATE THE TEACHERS' ABILITY OF INNOVATION AND ENTREPRENEURSHIP EDUCATION

The ability of innovation and entrepreneurship education of university teachers can't come into being spontaneously. It needs the long-term interaction between the cultivation of external organizations and the cultivation of individual self-cultivation. Therefore, the cultivation is often carried out from both external and internal aspects. It is necessary to carry out systematic design in terms of training objectives, training methods, training contents and training effect evaluation in colleges and universities. At the same time, they should launch various training activities at different levels and in various forms, and create a good atmosphere of innovation and entrepreneurship education. For individuals, it is necessary to deeply realize the importance of improving the ability of innovation and entrepreneurship education for their own career development, and consciously learn, actively practice, concentrate on research, internalize the requirements of external training into their own quality and ability. In view of the outstanding problems in the cultivation of innovation and entrepreneurship education ability of university teachers, this paper will put forward the ways to optimize the cultivation of innovation and entrepreneurship education ability of teachers.

A. Enhancing the strategic awareness and strengthening the concept identification of teachers' ability in innovation and entrepreneurship education

Teachers are the foundation of education. In order to cultivate innovative and entrepreneurial talents, teachers must have the corresponding educational ability, which is the inevitable requirement of the development of education for teachers' professional growth. Colleges and universities should recognize the strategic significance of improving teachers' innovation and entrepreneurship education ability from a strategic perspective, and form a consensus in the whole school through publicity.

B. Building a system of the cultivation to promote teachers' innovation and entrepreneurship education ability by systematic idea

It is a systematic project to cultivate the ability of teachers' innovation and entrepreneurship education, which needs to integrate high-quality resources inside and outside the school to form a joint force for a long time. Colleges and universities should make overall planning from policy and system, education and teaching, scientific research, integration of production and education, social linkage, cultural construction and other aspects in order to promote in an all-round way. On the basis of macro design, the special agency such as the teacher development center or human resource development department should formulate specific implementation plans from the aspects of training objectives, training principles, training subjects, training approaches, training methods, assessment and evaluation, and carry out effective training work. In this paper, we will stress five issues: who will train? What is the content of training? How to train? What's the effect? How to evaluate? The first question is to determine the trainer, generally including experts and scholars in the industry, entrepreneurs, peer-to-peer training and self-cultivation. The second problem is to clarify the training content, including the above five aspects, but not limited to them. The third problem is to find an effective way and method of training, including special training, practical activities, project development, social practice, communication between schools and so on. According to different cultivation objects, it will be necessary to establish step-by-step cultivation mode and select appropriate cultivation mode. The fourth problem is to make the effect of evaluation clear, which requires an effective evaluation system for objective evaluation. The fifth question is how to evaluate the effect of training. Following aspects are involved in doing this work well, which are the evaluation process, method, result analysis, feedback, etc. If the above key five problems are solved, the effectiveness of training will be obvious.

C. Paying attention to the training effect and integrating the high-quality resources inside and outside the school for all-round training

Innovation and entrepreneurship education has been the direction of higher education reform in colleges and universities. Therefore, all teachers should have the basic

quality and ability of innovation and entrepreneurship education. This is a comprehensive ability, which requires the effective integration of all high-quality resources inside and outside the school. In the cultivation of teachers' ability, it is essential to integrate the cultivation of innovation and entrepreneurship ability into all aspects of teachers' growth. The ways and methods of training should be diverse, such as special training, education and teaching reform, scientific research, social practice activities, and enterprise on-the-job training. The resources of teachers in school, experts and scholars outside school, entrepreneurs, and special training of government agencies should be effectively integrated. The offline training and online learning should be closely combined. The school's organizational training and teachers' self-training should be combined. In a word, on the basis of the consensus of all the staff, we should create a strong atmosphere to enhance the ability of innovation and entrepreneurship education and carry out all-round training.

D. Stimulating the endogenous power and establishing a long-term mechanism for the cultivation of teachers' innovation and entrepreneurship education ability

The natural characteristic of a teacher's profession is continuous learning. Therefore, it's extremely important to comprehensively use the theory of human resource development, optimize the system and create the environment in the cultivation of promoting the innovation and entrepreneurship education ability of teachers in colleges and universities in order to stimulate the internal driving force of teachers' self-development. Design a systematic and fine training system, and comprehensively use a variety of training methods according to the basic principles of "popularization of all staff, classified guidance, key promotion and achievement embodiment". Improve the effectiveness of cultivation. They are effective measures to integrate high-quality resources inside and outside the school, create a strong atmosphere of innovation and entrepreneurship education, promote the integration of all elements in coordination, and establish a long-term mechanism for the cultivation of teachers' innovation and entrepreneurship education ability.

V. CONCLUSION

Teachers are the foundation of education. The cultivation of College Teachers' ability of innovation and entrepreneurship education is the key element of deepening education reform. To cultivate teachers' ability of innovation and entrepreneurship education, we need not only correct scientific cognition, but also full participation, effective integration of resources, optimization of training channels, building a strong atmosphere and forming a long-term mechanism.

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