Analysis of the Integration of Professional Education and Innovation and Entrepreneurship Education in Universities

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Abstract: With the rapid development of the economy and society and the continuous progress of technology, the importance of innovation and entrepreneurship education in universities is becoming increasingly prominent. However, the integration of Professional Education in Universities and innovation and entrepreneurship education still faces some challenges. This article will explore the challenges faced by the integration of Professional Education in Universities and innovation and entrepreneurship education from multiple perspectives, and propose corresponding countermeasures.

Keywords: professional education, innovation and entrepreneurship education, integration

1. Introduction

With the rapid development of the social economy and the continuous progress of technology, the goals and requirements of higher education are also constantly changing. The Implementation Opinions on Deepening the Reform of Innovation and Entrepreneurship Education in Higher Education Institutions point out that education and teaching in universities should scientifically set up professional courses, continuously enrich and improve the innovative teaching resources of various professional courses, actively integrate innovation and entrepreneurship ideas in daily professional teaching, and effectively unify professional education and innovation and entrepreneurship education. The traditional mode of higher education can no longer meet the demand for talents in society. For universities, how to cultivate talents with innovative and entrepreneurial abilities has become an important issue. The research on the integration of professional education and innovation and entrepreneurship education in universities has emerged[1-2].

Then, what is the connotation of professional education in universities? What is the connotation of innovation and entrepreneurship education? Why do the two need to merge? What are the modes of integration between the two? What difficulties and challenges will be faced in the process of integrating professional education and innovation and entrepreneurship education in universities? How should universities respond to these challenges? This article will conduct analysis and research on the above issues[3].

2. Overview of Professional Education and Innovation and Entrepreneurship Education in Universities

2.1 The Connotation of Professional Education in Universities

College professional education refers to providing students with systematic education and training in accordance with the knowledge and skill requirements of specific professional fields during the higher education stage. College professional education focuses on cultivating students' professional knowledge and skills in specific fields, enabling them to possess professional qualities and abilities. College professional education is based on the curriculum system and provides systematic education and training for students according to certain teaching plans and requirements. College professional education focuses on practical teaching, enhancing students' practical skills through experiments, internships, and practical training. Professional education in universities focuses on cultivating students' research abilities and innovative consciousness, encouraging them to engage in scientific research activities and academic exploration. Professional education in universities provides personalized teaching and guidance based on
the interests, strengths, and developmental needs of students, promoting their comprehensive development. Professional education in universities focuses on teaching quality and effectiveness, continuously improving teaching level and quality, ensuring the learning outcomes and employment competitiveness of students[4-5].

2.2 The Connotation of Innovation and Entrepreneurship Education

Innovation and entrepreneurship education refers to educational activities aimed at cultivating students' innovative thinking, entrepreneurial ability, and innovative entrepreneurial spirit. Innovation and entrepreneurship education emphasizes the learning and practice of students in practical operations, and cultivates their practical abilities and skills through project practice, internships, and training. Innovation and entrepreneurship education is committed to cultivating students' innovative thinking ability, encouraging them to constantly challenge traditional concepts, and propose new ideas and concepts. Innovation and entrepreneurship education is committed to cultivating students' innovative thinking ability, encouraging them to constantly challenge traditional concepts, and propose new ideas and concepts. Innovation and entrepreneurship education aims to cultivate students' entrepreneurial abilities, including skills in market analysis, business planning, team management, and more. Innovation and entrepreneurship education advocates that students possess the entrepreneurial spirit of innovation, courage to take risks, and perseverance, encouraging them to actively respond to challenges, be brave enough to try and innovate. Innovation and entrepreneurship education usually integrates interdisciplinary knowledge, involving multiple fields such as business management, marketing, creative design, and technology, aiming to cultivate students' comprehensive abilities. Overall, innovation and entrepreneurship education aims to cultivate students' awareness, abilities, and spirit of innovation and entrepreneurship, enabling them to have the ability to establish themselves and successfully start businesses in a highly competitive social environment[6].

2.3 The Relationship between Professional Education in Universities and Innovation and Entrepreneurship Education

Innovation and entrepreneurship education and professional education are both important components of vocational education, each with its own characteristics and complementary to each other. There are significant differences between innovation and entrepreneurship education and professional education in terms of teaching content and teaching mode, but both are fundamentally aimed at cultivating high-quality talents who can adapt to economic development. Professional education is an important foundation for universities to carry out innovation and entrepreneurship education, and the development achievements of innovation and entrepreneurship education will in turn continue to affect the reform process of professional education. Professional education provides strong support for innovation and entrepreneurship education, achieving smoother development of innovation and entrepreneurship education. Therefore, professional education and innovation and entrepreneurship education in universities can integrate and influence each other, promoting the integration of innovation and entrepreneurship education and professional education in universities. This not only helps innovation and entrepreneurship education to better penetrate into daily teaching, but also makes the development of professional education more dynamic[7].

3. The Necessity of Integrating Professional Education in Universities with Innovation and Entrepreneurship Education

From the perspective of adapting to the needs of social development, the necessity of integrating professional education and innovation and entrepreneurship education in universities is mainly reflected in the following aspects:

3.1 Cultivating Innovative Talents

With the rapid development of technology and the acceleration of globalization, the demand for innovative talents in society is increasing. College professional education focuses on cultivating students' professional knowledge and skills, while innovation and entrepreneurship education focuses on cultivating students' innovative thinking, entrepreneurial awareness, and practical abilities. Integrating the two can better cultivate composite talents with both professional knowledge, innovative spirit, and practical ability, meeting the demand of society for innovative talents. Improve the comprehensive quality of students. By integrating professional education and innovation and entrepreneurship education, students can be trained in innovative thinking, entrepreneurial awareness, and practical abilities, and their
overall quality and competitiveness can be improved[8].

3.2 Promoting Economic Development

Innovation and entrepreneurship are important driving forces for economic development. As an important base for talent cultivation, universities can cultivate more talents with entrepreneurial spirit and ability by integrating professional education with innovation and entrepreneurship education, providing a continuous source of power for economic development. At the same time, universities can also transform scientific research achievements into practical productivity and promote economic development through cooperation with enterprises, social institutions, and other organizations.

3.3 Promoting Employment

With the expansion of enrollment in universities and the increase in the number of graduates, employment pressure is also increasing. Integrating professional education with innovation and entrepreneurship education can help students better understand the needs of the market and industry, and improve their employment competitiveness. Meanwhile, through innovation and entrepreneurship education, students can learn entrepreneurial knowledge and skills, providing support for their future entrepreneurship. With the intensification of market competition and the continuous progress of technology, enterprises require high-quality talents who not only possess innovative capabilities but also an entrepreneurial spirit. Integrating professional education with innovation and entrepreneurship education helps cultivate talents that are better adapted to meet these evolving market demands[9].

3.4 Promoting Higher Education Reform

With the development of society and the deepening of educational reform, higher education must continually adapt to societal needs. By integrating professional education with innovation and entrepreneurship education, higher education reforms can be promoted, focusing more on cultivating students' comprehensive qualities and practical abilities, and better adapting to societal demands. This integration can improve the education system. Traditionally, university professional education has emphasized theoretical teaching, while innovation and entrepreneurship education has stressed practical operation. Combining the two can enhance the education system, making it more focused on the integration of theory and practice, and improving the quality and effectiveness of education.

In summary, from the perspective of adapting to the needs of social development, it is necessary to integrate professional education in universities with innovation and entrepreneurship education. It can not only cultivate more versatile talents with innovative spirit and practical ability, but also promote economic development, employment, and higher education reform.

4. The Integration Model of Professional Education in Universities and Innovation and Entrepreneurship Education

4.1 Focused Mode

Focused mode refers to the establishment of innovation and entrepreneurship education departments in engineering or economics schools, and the centralized allocation of educational resources through central departments to plan and arrange courses, projects, etc., in order to attract students from all over the school to participate.

4.2 Radiation Mode

The radiation model is a school wide entrepreneurship education model, in which each college establishes an entrepreneurship education center or entrepreneurship project center to be responsible for the development of entrepreneurship education in the college. This model requires high professional requirements from college teachers, who need to provide relevant courses and project activities for students based on their professional background and characteristics. Through the active participation of each college, it radiates to the entire school, meeting the diverse and personalized needs of more students.
4.3 Magnet Mode

The magnet model is led by the business school, management school, or individual departments or departments that have entrepreneurship education resources in the school, establishing entrepreneurship education centers, integrating some resources, and offering entrepreneurship courses to all students in the school, attracting students with entrepreneurial interests to participate in learning. The task of the Entrepreneurship Education Center is to plan and operate entrepreneurship education, inspire, train, and guide students from different professional backgrounds to transform into entrepreneurs.

4.4 Mixed Mode

The mixed mode combines the three modes previously discussed. It starts with the adoption of a radiation model to establish innovation and entrepreneurship education centers, similar to those across all school departments. These centers offer a curriculum system infused with the distinct characteristics of each professional discipline, enabling teachers and students from various departments to engage with and understand innovation and entrepreneurship education; Then, a focused mode is adopted, mainly for students who have already received innovation and entrepreneurship education in their respective departments and have a high interest and clear intention in innovation and entrepreneurship. They can participate in specialized education on innovation and entrepreneurship carried out by the school's business school, management school, etc. The main characteristic of hybrid mode is to set different teaching objectives and provide different teaching services to different objects. The mixed mode requires a relatively high quantity and quality of entrepreneurial education teachers.

5. Challenges and Countermeasures for the Integration of Professional Education in Universities and Innovation and Entrepreneurship Education

5.1 Changing Traditional Education Models

The curriculum mechanism of innovation and entrepreneurship education in universities is not perfect, and the main carrier of university education is curriculum teaching, which includes theoretical courses and practical courses. However, in the specific practice of carrying out innovation and entrepreneurship education in universities, they have not fully integrated innovation and entrepreneurship education into professional education, resulting in the phenomenon of "two lines". The curriculum construction of innovation and entrepreneurship education in universities is relatively backward, and the teaching content and form have not kept up with the pace of the times, which has seriously constrained the development of innovation and entrepreneurship education in universities and the achievement of the goal of cultivating new talents. Traditional higher education focuses on imparting subject knowledge and theoretical research, but there are shortcomings in cultivating students' innovation and entrepreneurship abilities. At present, there are still problems in the teaching of innovation and entrepreneurship education in universities, such as the lack of authoritative textbooks, arbitrary class schedule, and lack of professional theoretical support. Universities should take professional education as the foundation and innovation and entrepreneurship education as the guidance, innovate and construct new forms of subject education and teaching, gradually integrate the concept of innovation and entrepreneurship education into professional education, and create a new system of innovation and entrepreneurship education. Universities need to change traditional teaching methods, focus on cultivating students' practical abilities and innovative thinking, and introduce practical teaching methods, such as project-based learning, practical courses, and internship training, to provide students with opportunities for practical problem-solving and innovative practice.

5.2 Strengthening the Construction of Teaching Staff

University teachers generally lack experience and ability in innovation and entrepreneurship education, and are unable to provide students with practical guidance and support. The allocation of teaching staff for innovation and entrepreneurship education in universities is insufficient. Although some universities attach great importance to innovation and entrepreneurship education, they have surplus resources but insufficient capabilities. There are relatively fewer teachers in universities who have practical experience in entrepreneurship, and there are relatively fewer teachers who have both theoretical knowledge and practical experience in innovation and entrepreneurship. The lack of high-quality teaching staff has to some extent hindered the development of innovation and entrepreneurship
education. Universities should optimize the allocation of teaching staff for innovation and entrepreneurship education and increase the teaching staff for innovation and entrepreneurship education courses. Universities should reasonably optimize the age structure of teachers, select outstanding young teachers from the professional teaching team, carry out innovation and entrepreneurship education and training, cultivate young backbone teachers, and play their exemplary and disciplinary leading roles. This helps guide college students to understand and master the inherent connection between innovation and entrepreneurship and professional subject knowledge, and improve the teaching quality of innovation and entrepreneurship education. On the other hand, it is necessary to build a teacher exchange platform. Universities should encourage teachers of innovation and entrepreneurship courses to have more discussions and exchanges with professional course teachers, and jointly guide students.

5.3 Improve the Evaluation System

The traditional evaluation system focuses on students' academic and exam scores, neglecting their innovation and entrepreneurship abilities and practical experience. Universities should establish a sound practical assessment mechanism to ensure the effective implementation of practical aspects in innovation and entrepreneurship education. Universities should test students' innovative and entrepreneurial practical abilities in real-life situations, promptly identify problems, and provide targeted assistance. Universities should establish a diversified evaluation system, including subject grades, practical achievements, innovative projects, and other aspects, to comprehensively evaluate the abilities and development of students.

5.4 Enriching Innovation and Entrepreneurship Resources

The professional education in universities is mostly dominated by departments, each department has its own professional education resources and allocates resources based on its own professional background, which is relatively independent and free. However, innovation and entrepreneurship education is mainly organized and carried out by the School of Economics and Management or the Employment Management Department, and only some universities have established independent innovation and entrepreneurship education departments to unify and coordinate teaching, training, practical and other educational activities. This directly leads to differences in the organizational form, system, and planning of innovation and entrepreneurship education and professional education in universities, resulting in a disconnect between the development of innovation and entrepreneurship education and professional education. Although some universities have adopted methods such as organizing innovation and entrepreneurship competitions and establishing entrepreneurial organization associations, which have to some extent promoted the integration of innovation and entrepreneurship education and professional education in universities, the degree of integration is not deep. Universities lack practical bases, financial support, and industrial cooperation resources in innovation and entrepreneurship education. Therefore, universities should provide support in teaching, faculty, funding, and other aspects. Innovation and entrepreneurship education provides strong guarantees, and the government and enterprises should be effectively organized together, with increased funding and support from preferential policies. Universities should strengthen cooperation with enterprises, research institutions, and social organizations, share resources, provide practical bases and financial support, and provide students with more opportunities for innovation and entrepreneurship.

6. Summary

Further research and practice are essential to enhance the integration of innovation and entrepreneurship education with professional education in universities. Understanding the dynamics of these educational models both domestically and internationally is crucial. It’s important to clarify the basic goals and requirements of innovation and entrepreneurship education and to construct a reasonable talent training model. Additionally, refining the quality assurance and evaluation system of this education, creating a positive campus cultural atmosphere, and integrating government and social resources are key steps. These efforts can consolidate into a strong educational force, creating a dynamic environment that promotes education and learning through innovation. The ultimate goal is to cultivate high-quality professional talents with innovative and entrepreneurial abilities in society.
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