

Innovation and Entrepreneurship Education and Open Utilization of Electronic Parts Library and Instrumentation Room

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Abstract—In order to deepen the reform of innovation and entrepreneurship teaching, the automation and high efficiency of electronic component management in university laboratories are realized. Electronic component management system to solve the electronic components and equipment to bring the convenience. With the rapid economic development stage, the next innovation in the public, the highly entrepreneurial situation, electronic components and instrumentation library management increasingly important for innovation and entrepreneurship education university students, colleges and universities to respond positively to the establishment of the Innovation and Entrepreneurship Institute of Education. The electronic component library and instrumentation room belong to the School of Innovation and Entrepreneurship Education. Electronic components and instrumentation are an indispensable part of the training of innovative talents. We must give full play to its role, promote the continuous development of innovation and entrepreneurship education, and promote the continuous improvement of the quality of innovation and entrepreneurship education.

Keywords—Innovation and entrepreneurship, electronic components, instrumentation, utilization

I. INTRODUCTION

"Popular entrepreneurship and innovation" have achieved remarkable results in various fields of social life in our country, and have attracted widespread attention from scholars in many disciplines. For engineering college students, the university stage is the best opportunity to participate in engineering practice, form engineering thinking, gain engineering ability, and enhance innovation ability. At present, the lack of awareness and ability of innovation and entrepreneurship education, the teaching method is single, the pertinence is not strong, the concept of innovation and entrepreneurship is lagging behind, the combination with professional education is not close, the practice is separated, the platform of innovation practice is lacking, and the guidance assistance is not in place. As an important part of the education system, the practice link has become a weak link in the cultivation of innovation and entrepreneurial talent. For electrical majors, electronic components and instrumentation are the top priority of the practice. The electronic component library and instrumentation room are based on the principle of "serving students, serving teachers, serving teaching, serving scientific research, serving the competition". Yuan electronic devices and advanced instrumentation is a necessary condition for successful innovation and entrepreneurship indispensable. The library of components and instrumentation should be adapted to the needs of innovation and entrepreneurship education, and should be adapted to its service objectives and objectives, construction and comprehensive development. Starting from the creative entrepreneurship education, this paper studies the practical influence of electronic components library and instrumentation on college students' innovation and entrepreneurship education, and proposes an effective way for electronic libraries and instruments to innovate and start college students.

II. THE CONNOTATION OF INNOVATION AND ENTREPRENEURSHIP EDUCATION

With the deepening of research, there has been a trend of innovation education and entrepreneurship education as a whole. Innovation and entrepreneurship education is a comprehensive concept based on the concepts of innovation education and entrepreneurship education, but it is not just a simple superposition of two concepts, innovation education and innovation. Industry education is a twin relationship. Our national innovation-driven development strategy to promote the reform of higher education, the promotion of high-quality highly entrepreneurial college graduates employment, further defined the overall goal of deepening the reform innovation and entrepreneurship education in colleges and universities, the guiding ideology and basic principles.

Domestic scholars' understanding of innovation and entrepreneurship education is divided into two categories: one is to equate it with simple innovation education or entrepreneurship education; the other is to understand it as a fusion of the two. This paper proposes that the two research fields of innovation and entrepreneurship penetrate and intersect with each other. In the context of new globalization, China's economic development and social progress, innovation is the key; in a rapidly changing social environment, personal career development and career development, entrepreneurship is the norm. Therefore, innovation and entrepreneurship education is a brand-new educational concept. From the perspective of student subject and knowledge and practice, innovation education and entrepreneurship education are unified and must be studied as a whole.

Innovation and entrepreneurship education contains the connotations of innovation education and entrepreneurship education, but it cannot be simply superimposed or equivalent. It must be regarded as a comprehensive education system. In this system, innovation leads entrepreneurship, entrepreneurship drives employment, and actively adapts to the development of the new normal economy. Innovation and entrepreneurship education highlights the national strategy and social needs, and defines the value orientation, becoming a new educational concept that leads the reform of higher education. Educational model. Broadly speaking, innovation and entrepreneurship education is an educational practice to create a great cause; in a narrow sense, innovation and entrepreneurship education is a teaching reform activity that enables college students to embark on the road of self-employment.

III. THE BOTTLENECK IN THE PROCESS OF COLLEGE STUDENTS' INNOVATION AND ENTREPRENEURSHIP

A. *Lack of accurate intelligence personnel*

In the process of college students' innovation and entrepreneurship, more are technical personnel and there are many innovative college students. The people who gather intelligence in the process are often not full-time employees, or there are no full-time staff who collect business intelligence. Entrepreneurial projects rely on their own aura to explore and develop. Often, due to the lag of information, the repetition rate doubles. The final result ends in failure. It not only wastes energy, but the most important thing is to combat the positive attitude of college students in innovation and entrepreneurship. Intelligence personnel are crucial.

B. *Lack of timely and accurate information*

With the advent of the information age, accurate intelligence information is the key to accelerating the success of entrepreneurship. The survey found that the source of intelligence information for college students' entrepreneurial projects is often obtained in the circle of consulting alumni and social friends. The useful market information obtained by these methods is quite limited, and the accuracy of information is very low and the reliability is too small. In the absence of accurate information, the team of college students often began to touch the stones and cross the river in a general direction. While implementing and continuing to explore market information, taking some detours, and even failure is the inevitable result of such entrepreneurial projects.

C. *Lack of real-time progress assessment and guidance*

The whole process of college students' entrepreneurship projects should be divided into the initial stage of entrepreneurship, the middle stage of entrepreneurship and the end of entrepreneurship. Every link is critical, and every step should be evaluated and guided by experts. The survey found that in the early stage of entrepreneurship, the entrepreneurial project will be reviewed and evaluated in more detail. However, in the middle and late period, due to the lack of professional consultants and platforms, guidance and evaluation will be in the form. One of the reasons why most entrepreneurial projects are slow to progress is that there is no real-time assessment guidance, and the required intelligence information cannot be obtained in time during the entrepreneurial process.

D. *Lack of perfect innovation and entrepreneurial culture environment and atmosphere*

A sound entrepreneurial space is the key to stimulating college students' innovation and entrepreneurship. A perfect entrepreneurial culture environment and atmosphere will give college students more motivation and passion. Through the investigation of many colleges and universities in Hebei Province, the entrepreneurial space provided by colleges and universities is only a temporary classroom or laboratory, and the resources available to students in the process of entrepreneurship are relatively scarce. Moreover, due to the temporary nature of the space, college students can't invest in the entrepreneurial space for a long time and wholeheartedly. What's more important is that they can't consult and consult the relevant content of the entrepreneurial project in time, so that the entrepreneurial project can develop faster and better.

IV. THE MANAGEMENT OF ELECTRONIC COMPONENTS LIBRARY AND INSTRUMENTATION ROOM

The management of electronic components and instruments includes the registration of electronic components and instrumentation after purchase, the registration at the time of collection and the statistics of the remaining quantity.

A. *The library registration*

Newly purchased electronic components and instruments need to be registered for storage. If it has been previously registered, change the original quantity and store it in the original place; if it is a new component, it must be registered in detail from the model, quantity, storage location and so on.

B. *Out of library registration*

For the needs of scientific research and laboratory management, some teachers and students often receive electronic components and instruments. When collecting, they must record the quantity, the person in charge, etc., and find the components from the corresponding iron box.

C. Statistical processing

After a period of time, some of the more commonly used electronic components and instruments may be collected or not much left, and statistics must be made. Timely replenishment and purchase of a new batch of electronic components to meet the needs of designing various products.

V. WAYS TO PROVIDE SERVICES FOR UNDERGRADUATES' INNOVATION AND ENTREPRENEURSHIP EDUCATION IN ELECTRONIC COMPONENT LIBRARY AND INSTRUMENTATION ROOM

A. Electronic component library and instrumentation room should provide initiative and personalized service for innovation and entrepreneurship education.

The electronic library and instrumentation room actively serve the various professions of the Innovation and Entrepreneurship Education Institute, and provide students with deeper personalized services. Apply active services and personalized services to the process of innovation and entrepreneurship education. The electronic component library and instrumentation room should strengthen the implementation of active service and personalized service, promote the quality improvement of innovation and entrepreneurship education, and provide a solid material foundation for innovation and entrepreneurship education.

B. The multi-channel and multi-modalities of electronic components library and instrumentation room provide services for cultivating college students' innovative and entrepreneurial abilities.

The electronic component library and instrumentation room not only serve the teaching practice of various majors of the Innovation and Entrepreneurship Education College, but also provide thoughtful services for various extracurricular scientific and technological activities, research projects undertaken by teachers and students, Daiso projects, and various competitions. .

C. Integrate electronic components library and instrumentation room into the entire process of innovation and entrepreneurship education in the college.

From the student's entrance to the university, the internship, the subsequent production practice, the intermediate course design, and the final graduation design each require the corresponding electronic components and instrumentation to assist the support. Make full use of the library and instrumentation.

D. The essence of the library management is to maintain a reasonable inventory.

According to the out of storage of each type of components to determine a reasonable inventory and base. Once a component stock is lower than the base, and the procurement be added. Only by reducing the device inventory and increasing the turnover rate can we make full use of the warehouse and funds. First, identify common device types and rarely use device types. Second, on the basis of full consideration of device balance, strengthen the profit and loss accounting, benefit evaluation analysis, and analysis of excess balances of the inventory library. For stocks that have not been shipped out for more than a period of time (for example, one semester) , to minimize inventory costs. Make full use of the space in the warehouse, place the shelves for storage, and select the storage location according to the frequency of delivery. Scientifically place and place: the same kind of items are placed in the same place, according to the weight of the storage location, according to the principle of first in, first out as much as possible to speed up the turnover.

VI. CULTIVATE INNOVATIVE THINKING PROPOSALS TO ENHANCE THE LIBRARY ELECTRONIC COMPONENTS AND INSTRUMENTATION ROOM BUILDING

A. Strengthen the innovation education

The more frequent the behaviors and activities of undergraduates using electronic component libraries and instrumentation rooms and their cultures to strengthen their creative thinking exercise, also allow managers of electronic component libraries and instrumentation rooms to pay more attention to the improvement and improvement of relevant conditions. Electronic component libraries and instrumentation room activities can play a key role. Traditionally, electronic components and instrumentation room is the library collection of all kinds of electronic components and equipment of the field. With active people deep library of electronic components and instrumentation room know, electronic components and instrumentation library room that can pass the activities, allowing students to produce electronic components and instrumentation intersection, also allows students to participate in a profound understanding of electronics The component library and instrumentation room activities play a very good role in enriching their knowledge, broadening their thinking and inspiring their own interests .

B. Schools and businesses to strengthen cooperation in the sharing of resources

The attributes of the university's electronic components library and instrumentation room determine that its information resources are mainly to meet the needs of teaching staff and students in teaching practice , scientific research, management, and learning. The professional scope is wider; and the electronic components library and instrumentation room of the enterprise information resources are mainly revolves around the main business scope of the company's research, production and operating and so on, has a unique professional features. Under the background of contemporary college students' innovation and

entrepreneurship, they should provide practical bases for college students, and also provide development opportunities for school enterprises to jointly build information resource sharing platforms. Electronic components and instrumentation room library with rich resources should universities, professional talent and technological advantages, to create a unique core competitiveness and development characteristics of knowledge services. Promote better innovation and entrepreneurship for college students.

C. Improve the level and quality of electronic components and instrumentation room library exchange activities

The electronic components library and instrumentation room in colleges and universities conduct effective academic exchange activities for a long time, which broadens students' horizons, refines their thinking, and facilitates the formation of innovative thinking. Promote the exchange of practical learning of controversy and doubt, because of this, will have a challenge and controversy, will have constantly thinking, will generate new thinking, new ideas, the first idea, and produce new results. Controversial and questionable exchanges of practical activities are considered to be high-level and high-quality.

VII. CONCLUSION

In general, the opening of university electronic components library and instrumentation room has a positive effect on cultivating and shaping innovative thinking of college students. The electronic component library and instrumentation room of colleges and universities are an important part of the teaching facilities of colleges and universities. Under the superior environment of the university campus, college students are able to make full use of the various advantages of the electronic component library and instrumentation room to improve their innovation ability. Universities' electronic components libraries and instrumentation rooms should constantly optimize their own management programs to provide the necessary conditions for the innovation and development of college students. In the new thing innovation and entrepreneurship education, the sub-component library and open instrumentation room Its purpose is to highlight the innovative entrepreneurship education, innovation and entrepreneurship education and practical aspects are inseparable, inseparable from the strong support practical aspects of library components and instrumentation room. The opening and utilization of open libraries and instrumentation rooms is the basis for promoting and enhancing innovation and entrepreneurship education.

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