

Exploration and Practice of the Construction of “1 + X + N” and “Mass Entrepreneurship and Innovation” in Universities

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Abstract. Innovation and entrepreneurship activities of college students are one of their important activities, and also an essential part of their daily life. By building "1 + X + N" and "double gen" practice platform architecture, form "achievement display, practice teaching, a guest activities, competition cultivation, project incubation" five integrated operation mode, is dominated by school, featuring college professional, based on platform, to the student as the main focus, driven by competition, to project for the traction of six big features. Through the "1 + X + N" and "mass entrepreneurship and innovation" practice platform system, it provides a guarantee for innovative and entrepreneurial talents, and makes innovative and entrepreneurial talents better trained.

Keywords: Practice platform; innovation and entrepreneurship; coordination and linkage; talent training

1 Introduction

The Chinese government has made it clear that it must strengthen the innovation and entrepreneurship education reform in colleges and universities as the key entry point. Therefore, we need to reach an agreement on deepening the innovation and entrepreneurship education for college students. As the main place for innovation and entrepreneurship education, the innovation and entrepreneurship platform in colleges and universities plays a vital role in the cultivation of students [1]. In recent years, in order to improve students' innovative thinking and awareness, the school has strengthened the innovation and entrepreneurship training [2], and promoted the development of innovation and entrepreneurship teaching. The university has integrated all kinds of original "double generation" bases, guest laboratories and other resources, forming a "1 + X + N" practice platform of "mass independent innovation", gathering high-quality resources and cooperating with enterprises to jointly improve the quality of innovative and entrepreneurial talents of the university.

2 Practice the platform architecture

Moral education is the fundamental task of school education [3]. The cultivation of innovation and entrepreneurship spirit is an important link of moral education. It is of great significance

for college students to correctly understand the spirit of innovation and entrepreneurship, establish good innovation and entrepreneurship thinking, and improve their comprehensive ability. Colleges and universities through the party and government force, full participation and system thinking, integration of campus resources, and social related extensive cooperation from all walks of life, collaborative innovation, gradually establish and form an integrated talent training system oriented on innovation and entrepreneurship ability integrating "training objectives, process management and quality improvement" [4]. To optimize the existing resources, giving full play to the advantages of school characteristic disciplines, improve the quality of innovative entrepreneurial talent training, the school will be provincial guest laboratory, field innovation entrepreneurship base, experimental teaching demonstration center, campus engineering training innovation practice base and practice base hardware and software platform for organic integration, pooling all advantage innovation entrepreneurship, build hierarchical, diversified "1 + X + N" college students' innovative entrepreneurial practice platform, realize the point structure to star structure [5].

The architecture structure of the "1 + X + N" college students' innovation and entrepreneurship practice platform is shown in Figure 1. "1" is the management organization of school innovation and entrepreneurship education. "X" is a professional school-level public platform for innovation and entrepreneurship established in X campuses with different themes and giving full play to the advantages of different disciplines [6]. "N" is a college-level innovation and entrepreneurship characteristic platform with its own professional characteristics established in each college.

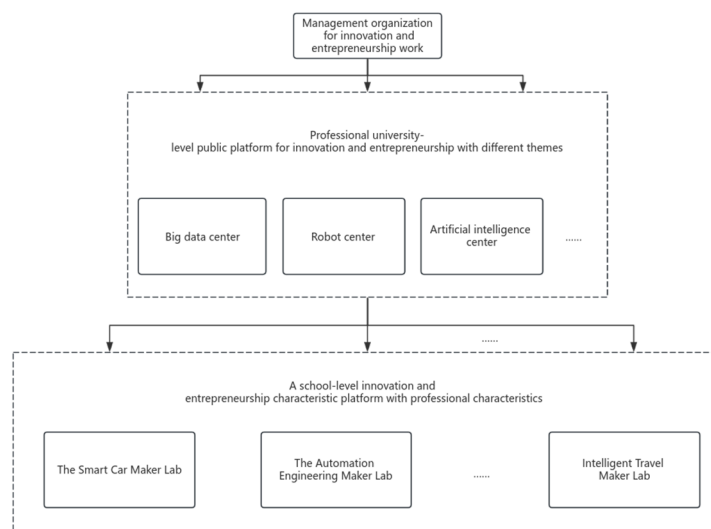


Fig. 1. Architecture structure of "1 + X + N" "mass entrepreneurship and innovation" practice platform for college students.

2.1 "1"

The school has set up a special innovation and entrepreneurship education management organization [7], which is responsible for the specific guidance, implementation and

coordination of the school's innovation and entrepreneurship education work, establishes the coordination and service mechanism between various colleges and functional departments, and joins all the party and the government to participate in the school's innovation and entrepreneurship education work [8]. The management organization of innovation and entrepreneurship education makes overall planning, build and manage the innovation and entrepreneurship practice platform, build the platform system architecture, innovate relevant policies and systems, and integrate and optimize resource allocation.

2.2 "X"

Integrate the dominant disciplines and majors, and build a professional university-level innovation and entrepreneurship public platform with different themes with the campus as the unit. Three university-level public platforms for innovation and entrepreneurship were built with big data, robotics and artificial intelligence. Provide innovation and entrepreneurship education combining big data, robot and artificial intelligence technology, and strengthen the knowledge, ability and accomplishment of professional disciplines through practice teaching, competition cultivation, and project incubation, form interdisciplinary, platform, competition and project teams and tutors to improve students' innovation and entrepreneurship ability.

2.3 "N"

The university-level public platform for innovation and entrepreneurship, as a model, promotes all colleges to build characteristic college-level innovation and entrepreneurship platforms, and helps the development of innovation and entrepreneurship in higher education in China. The platform provides one-stop services, including policy guidance, project incubation, technical support and talent training. Students can learn to grasp the industry trends, expand their contacts, and improve their innovation and entrepreneurship skills. All colleges should give full play to their professional advantages, create distinctive innovation and entrepreneurship platforms, improve students' practice, innovation and entrepreneurship ability, and cultivate high-quality talents.

3 Features of the practice platform

The "1 + X + N" college students' innovation and entrepreneurship practice platform promotes the comprehensive and deep integration of innovation and entrepreneurship education into the whole process of talent training, and gradually forms and continuously optimizes the operation mode of "achievement display, practical teaching, maker activities, competition cultivation and project incubation", as shown in Figure 2.



Fig. 2. Operation mode of the mass entrepreneurship and innovation practice platform.

3.1 Take the school as the leading role

There are three types of innovation and entrepreneurship education management organizations in universities in China [8]: dot, virtual star and star. The decentralized management of point structure leads to the independence of all levels, low resource sharing and difficult quality environment and service; Part-time management of virtual star structure makes it difficult to pay full attention to and coordinate education. The star structure has a special management organization, equipped with full-time personnel, considering the elements of innovation and entrepreneurship, and providing a high-quality platform. The typical star structure is the "1 + X + N" "mass entrepreneurship and innovation" practice platform system. By strengthening the top-level design and optimizing the management mode, the university promotes the linkage and on-campus coordination, forms synergy with relevant departments and promotes cooperation; Through the institutional innovation, a series of policies and measures covering the colleges, teachers and students to encourage teachers to actively guide students in innovation and encourage students to participate in innovation and entrepreneurship.

3.2 With the college as the feature

We will build a college-level innovation and entrepreneurship platform, clarify the training objectives of professional innovation and entrepreneurship talents, and organically integrate innovation and entrepreneurship education with professional education. The college is responsible for platform construction and improving management efficiency. Combined with the school's innovation and entrepreneurship practice activities, formulate characteristic practice plans to realize resource sharing. The innovation and entrepreneurship team of the college can seek cross-college and cross-professional cooperation based on the university platform to realize multi-disciplinary interaction.

3.3 Relying on the platform

With the help of the innovation and entrepreneurship practice platform, high-quality practical training courses are set up to realize online teaching, simulation experiment and practical training operation, which can quickly improve students' professional skills. In the process of innovation and entrepreneurship education and teaching, the "1 + X + N" and "mass entrepreneurship and innovation" practice platform organically integrates the first classroom

and the second classroom, and pays attention to the combination of theory and practice. On the basis of theoretical learning, students choose to participate in one or more practical training projects according to their actual situation and interests, and relying on the practice platform of innovation and entrepreneurship, so as to stimulate the inspiration and interest of innovation and entrepreneurship through practical activities. Students feel knowledge in classroom teaching, experience knowledge in practical practice, apply and innovate knowledge in innovation and entrepreneurship, and cultivate innovative thinking and innovation ability in an all-round way.

3.4 Take students as the main focus

The traditional education and teaching mode mainly focuses on imparting knowledge, the students' autonomy and consciousness cannot be released, the learning efficiency is low and the innovation consciousness is weak. The "1 + X + N" and "mass entrepreneurship and innovation" practice platform system emphasizes taking students as the main focus, exploring a variety of ways to fully stimulate students' subjective initiative in innovation and entrepreneurship activities, gradually change the learning mode from passive acceptance to active exploration, students are more positive in spirit, and their innovation and entrepreneurship vitality is fully released.

Set up a student service team, student-oriented. The team is composed of college students, responsible for one-stop services for innovation and entrepreneurship and school activities. There are 4 departments: Activity Department is responsible for planning activities; Office Department manages operation and makes regulations; Publicity Department makes copywriting and publicity; Liaison Department is responsible for achievement display and contacting organization.

Select innovation and entrepreneurship teams. Include development team: participate in the development of platform information projects to improve management efficiency; competition team: relying on the resources of innovation and entrepreneurship practice platform, establish interdisciplinary team, after training, participate in high-level competition; incubation team: select student project teams with clear innovation and entrepreneurship projects, innovation, certain market potential and development space to enter the incubation space. The platform provides teams with free space, some office equipment, networks, services, etc., and provides a strong guarantee for students' innovation and entrepreneurship activities through various ways.

Play example. Young college students are a group with strong innovation potential and the writers of the magnificent picture of the new era. The "1 + X + N" and "Mass entrepreneurship and innovation" practice platform widely publicizes students' successful innovation and entrepreneurship cases by means of achievement display and lectures, so that college students can strengthen their cognition and perception of innovation and entrepreneurship from these vivid cases, so as to learn by example and by goal.

3.5 Take the project as the traction

Colleges and universities can combine the characteristics of the innovation and entrepreneurship practice platform, set up or apply for special research projects on innovation and entrepreneurship, so that college students can cultivate their innovation and

entrepreneurship ability in special research projects. During the school period, college students can apply to preside over or participate in special college students' innovation and entrepreneurship research projects based on their learning interests and professional expertise. Under the principles of openness, fairness and justice, the school innovation and entrepreneurship management organization shall organize project review, project filing and provide financial support. For the teams that have achieved good results in innovation and entrepreneurship competitions or projects, the school supports and encourages them to further explore, and increases the platform site, funding investment, service guarantee and other support, so as to make the innovation and creativity with market potential complete the transformation of achievements, and realize the interaction between innovation and entrepreneurship.

4 Achieve a result

The construction of the "1 + X + N" mass entrepreneurship and innovation practice platform has further optimized the talent training system and encouraged students to actively participate in the innovation practice. Strengthening the coordination of colleges and universities, fully stimulating the enthusiasm of college teachers and students, and creating a strong atmosphere for innovation and entrepreneurship. With the help of the school's "1 + X + N" mass entrepreneurship and innovation practice platform, teachers and students, under the guidance of their mentors, have established a comprehensive competition training system covering training camp selection, professional training and actual combat on the competition site. Through the competition, the team members were guided by the top domestic experts, and had in-depth communication with the excellent student entrepreneurial team, so as to have a deeper understanding of innovation and entrepreneurship.

5 Conclusion

We will give full play to the role of on-campus innovation and entrepreneurship practice platforms, such as university science parks, College Student Pioneer Park, and College Student Maker Space, and open them to college students for free of charge, and provide professional incubation services [9]. Through the construction of "1 + X + N" "mass entrepreneurship and innovation" practice platform, break the boundary between colleges, majors, the first classroom and the second classroom, the school and college linkage, the combination of theory and practice, to provide high-quality software and hardware conditions for college students to carry out innovation and entrepreneurship activities, and improve the quality of innovative and entrepreneurial talent training [10].

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