Analysis on the Problems and Solutions of Implementing the "Practice Ability Training Program" Project

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Abstract. Beijing Municipal Education Commission began to implement the "practice ability training program" project since 2015. Beijing Wuzi University which is one of Beijing municipal universities takes part in this program and explores actively the execution mode. Through the graduation design (thesis) and project training, the innovative education effectiveness of cultivating talents is improved greatly. The project is implemented firstly in Beijing and even in the whole country, and there are still some problems in the actual implementation. Therefore, it is necessary to explore how to ensure the smooth implementation of the project. This paper summarizes the basic situation and problems of the project execution in our school, and puts forward some corresponding countermeasures, which will play an important role in the better implementation of this project in our school, and it also will be of reference significance for other universities to carry out this project better.

Introduction

There are 59 universities in Beijing, among which 23 are municipal colleges and universities, accounting for 39% of the total number of undergraduate colleges in Beijing. They play an important role in the reform and development of higher education in Beijing. Under the background of developing coordinately Beijing, Tianjin, Hebei and constructing Beijing to be an international first-class harmonious and livable city, it is a major strategic issue for thinking of how to further strengthen their own characteristics, exploit actively the external high-quality education resources, improve the quality of talents’ cultivation, highlight its own position in the capital higher education system and then fully integrate into the modernization construction of Beijing City and serve effectively capital and regional economy.

The "national long-term education reform and development plan (2010-2020)" clearly puts forward that the reform and innovation should be a powerful driving force in the development of education [1]. Based on this premise, since March 2015, the Beijing Municipal Education Commission officially launched the "cross cultivation program for high-level talents of Beijing higher education institutions"[2]. The plan is mainly around the capital economic and social development needs for talent cultivation and provides the chances for the Beijing municipal colleges and universities students to study in the well-known universities from home and overseas and research institutes and enterprises to broaden the channels of practice. This project is commonly called "three kinds cultivation program", namely "co-cultivation program", "external cultivation program" and “the practice ability training program "[3].

Under the principle of "opening and sharing, practice innovation, characteristic construction", the "practice ability training program", taking cultivating students' innovative spirit and practice ability as a key, makes innovations in the system and mechanism, and establishes and improves the systematic practice teaching system for the undergraduate training[4]. The development of this project is of great significance to cultivate students' innovative thinking, improve their scientific literacy, enhance their scientific research ability and expand their scientific field of vision [5]. This paper mainly discusses the implementation of "practice ability training program” project in Beijing Wuzi University, the existing problems and corresponding solutions.
The Implications of the “Practice Ability Training Program” Project

In order to enhance the ability of practice and innovation of students, according to the needs of the "practice ability training program" project, a number of excellent students who are from the municipal colleges and universities and have good professional basis and certain scientific research innovation ability will be selected into academician studio, professor laboratory, scientific research innovation team and engineering center to accept scientific research and innovation training per year. "Training plan" includes three parts which are graduation design (research and entrepreneurship) project, research training program and open sharing project experiment of teaching. Among them, the first two are mainly for municipal colleges and universities, and the latter is based on the central ministries and universities, and appropriately radiates to the municipal universities with good conditions. The graduation design (research) project is to select some outstanding students to enter the domestic well-known research institutions to accept scientific research and innovation training, which takes the graduation design (research) as a carrier to build a platform for the cultivation of students' scientific research innovation ability. Here, the well-known scientific research units mainly refer to the Chinese Academy of Sciences and the Chinese Academy of Social Sciences. The graduate design (entrepreneurship) program is to select excellent students into entrepreneurship Park, entrepreneurial incubator, venture capital institutions and other entrepreneurial practice sites. In the form of graduation project (research), the talent training and entrepreneurship education are combined to encourage students to start their own business and cultivate their entrepreneurial genes.

The research training program is to select the outstanding students into the talent training base, the extramural national undergraduate school education practice base and other outside school practice base. Its purpose is to practice the students’ practical innovation ability and ability to solve practical problems in the real environment. The above two projects adopt the "double tutor" training mode.

The experiment teaching open sharing project is to give full play to the advantages and characteristics of experimental teaching in Colleges and Universities. On the basis of fully integrating and utilizing the existing high quality experimental teaching resources, the experimental teaching sharing and opening base for college students and the society is built. It realizes the integration of resources within the region and collaborative education among primary and secondary schools in Colleges and universities and enhances service level for the society, the university and the primary and secondary schools in Beijing.

The Basic Situation of the Implementation of the "Practice Ability Training Program" in our University

Beijing Wuzi University, a public higher education institution, is characterized by logistics and circulation, based on economic disciplines, taken management disciplines as the backbone. Economics, management, science, engineering, literature, law and other disciplines are developed harmoniously in the university. In 2015, our school as one of Beijing municipal Universities took part in the “practice ability training program” which was launched by The Beijing Municipal Education Commission. In order to ensure fair and effective development of the project, the selection method of the project which clearly defines the selection principle has been formulated at the beginning of executing the project.

In 2015, 34 items were applied and approved, which included 16 items of graduation design (research), 10 graduation projects (entrepreneurship), and 8 research training programs. In 2016, including 15 items of graduation design (research), 15 graduation projects (entrepreneurship), and 19 research training programs, 49 items were approved. The specific situation is shown in table 1.
Table 1. The basic situation of the implementation of the "practice ability training program".

<table>
<thead>
<tr>
<th>Project name</th>
<th>Year 2015 (number of students)</th>
<th>Year 2016 (number of students)</th>
</tr>
</thead>
<tbody>
<tr>
<td>graduation projects (research)</td>
<td>8</td>
<td>15</td>
</tr>
<tr>
<td>research training programs</td>
<td>16</td>
<td>15</td>
</tr>
<tr>
<td>graduation projects (entrepreneurship)</td>
<td>10</td>
<td>19</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
<td><strong>49</strong></td>
</tr>
</tbody>
</table>

In order to better carry out the project, to strengthen the process of supervision and inspection, to urge the students to expedite the study and fulfill the project objectives and improve the effect of the implementation, mid-term examination, end defense work etc. are organized during the process of project implementation. After one year of implementation, a total of 30 items which involve in 73 students are closeout in 2015. In the process of doing the project, the quality of students has been greatly improved. 3 papers were published, 6 patents were authorized, 4 students passed the graduate examination and 1 student started a business. The specific circumstances as shown in table 2.

Table 2. The basic situation of the "practice ability training program" closeout in 2015.

<table>
<thead>
<tr>
<th>Project name</th>
<th>Approval items</th>
<th>Items knot</th>
<th>Published papers</th>
<th>authorized patents</th>
<th>Graduate student</th>
<th>Starting business</th>
</tr>
</thead>
<tbody>
<tr>
<td>graduation projects (research)</td>
<td>8</td>
<td>7</td>
<td>2</td>
<td>--</td>
<td>3</td>
<td>--</td>
</tr>
<tr>
<td>research training programs</td>
<td>16</td>
<td>15</td>
<td>--</td>
<td>6</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>graduation projects (entrepreneurship)</td>
<td>10</td>
<td>8</td>
<td>1</td>
<td>--</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
<td><strong>30</strong></td>
<td><strong>3</strong></td>
<td><strong>6</strong></td>
<td><strong>4</strong></td>
<td><strong>1</strong></td>
</tr>
</tbody>
</table>

Problems of Implementing the "Practice Ability Training Program" in our School

It is the first time that the project of "the co-cultivation program" is carried out in municipal universities. Therefore, there are various problems in the process of carrying out the project, and all of them need to be studied and solved. The problems are as following.

The Less Cooperation with Well-known Research Institutes

According to the requirements of the Education Commission, the graduation project should be applied by teachers and finished with the Chinese Academy of Sciences, Institute of Social Studies and other well-known domestic scientific research units. In 2015, 16 items are declared, but only 8 items are authorized because only half of the applied project is to cooperate with the China Science Research Institute and other well-known domestic scientific research units. This is related to the less exchanges and cooperation between our teachers and these famous scientific research institutes, such as teaching and scientific research, etc., which has resulted in fewer declaration channels and projects.

The Influences of Features of the Subjects on Declaring Initiative

Our school is an ordinary higher education institutes, which is based on economic discipline, and takes management discipline as the backbone, and develops coordinately through disciplines such as classics, management, science, engineering, literature and law. For economics and management specialty, the innovation and scientific research ability is mainly embodied in the field of humanities and social sciences, especially on the field of economic management research. It needs students to put forward the corresponding solutions and the main form of scientific research is Investigation reports or research reports. For undergraduate students of economics and management in our university, it is difficult to make high-level scientific research results, so the enthusiasm of the project is relatively low.
The Lower Teachers' Enthusiasm of Guiding Students

College teachers' workload of teaching and scientific research is larger, and their own requirements for titles and other aspects cause that a lot of teachers has no enthusiasm to guide students to do some research project, which is reflected from two aspects of teachers' application and guidance. Some teachers are only a guide, and did not take the initiative to contact the students and to know the progress of students' project. And at the same time, the students also did not actively contact the instructors for help, which directly lead to the project execution effect is not ideal.

The Relatively not High Level of Overall Situation of the Project

The "practice ability training program" is executed for the first time in our school. The policy interpretation, implementation and expenditure of the project are all in the exploratory stage for teachers, students and even our school. In addition, the project declaration time is too hasty, which makes the selection of students, the choice of cooperative personnel training base and outside school guidance teachers not be fully carried out. During the mid-term examination and closeout of the project, it is found that the overall level of the project is significantly lower than what we expected. 4 of the items failed to meet the deadline due to various reasons, and the result of the closeout project have also been unsatisfactory.

The Time Dislocation of the Project Declaration, Progress and Funds Arrival Affects the Smooth Development of the Project

The graduation project and the research training program were applied in June 2015 and were authorized in mid-September 2015. However, the fund was arrived at school in early 2016. After the work of school funds division, the time that the students can use the money is about April 2016. Usually, the students have graduated from school in June, which results in the difficulties of implementing the project funds. The seriously dislocation of the project progress and the funds use time needed the teachers and students need pay the bill first with their own money at the early stage of the project, which also hinders the development of the project and the enthusiasm of the students to a great extent.

Solutions for Problems of the "Practice Ability Training Program" Implementation in our School

Formulate a Series of Rules and Regulations, Measures, Schemes and so on to Ensure the Implementation Effect

In order to better carry out the "practice ability training program" and successfully solve all kinds of problems in the process of the project, based on a thorough research and discussion, a series of regulations are formed such as "the selection methods of the ‘practice ability training program’ project of Beijing Wuzi University’s", "Interim inspection methods for the ‘practice ability training program’ project of Beijing Wuzi University", "Beijing Wuzi University high level talent cross culture management approach for the ‘practice ability training program’ (Trial)", "Measures for the management of the project funds of the ‘practice ability training program’ of Beijing Wuzi University" and so on. All these documents make detailed provisions and requirements on the selection, organization and management, process supervision, items knot and the use of funds, and effectively ensure the smooth implementation of the "practice ability training program" project.

Strengthen the Contact with Famous Research Institutes, Enterprises and Enterprises, to Broaden the Field of Teaching and Scientific Research Cooperation

To response to the school policies of driving teachers to go out and go to the business to taking a temporary post, teachers are encouraged to cooperate with famous research institutes in terms of teaching and academic exchanges.
At the same time, to further strengthen the contact with the enterprise with large scale, strong influence and guiding force, to expand the training base construction of school talent, substantive cooperation is carried out, which helps realize resource sharing and advantage complementation. Through continuous construction, the majority of teachers, especially young teachers, can engage in related scientific research activities in enterprises and units, and promote students to participate in scientific research practice, which is conducive to the development and implementation of scientific research projects.

**Strengthen Propaganda, Guidance to Improve the Enthusiasm of Students and Teachers to Participate in the Project**

The "practice ability training program" project needs all the teachers and students to participate in. The higher the enthusiasm of participating teachers and students, the more intense competition, the more likely the high level of project will come out, the more energy the students and teachers invest in the implementation process, and the better the effect of the project will be. Therefore, we need to strengthen to preach the project background, significance, requirements, the amount of funds and the corresponding school policies, so that teachers and students fully understand the project and have the enthusiasm to participation in the project.

**Strengthen Communication with Beijing Education Commission to Prepare the Project Declaration in Advance**

As the “practice ability training program" project is carried out for the first time in Beijing, whether the Beijing Municipal Education Commission or municipal colleges and universities which participate in the project are all in the exploratory stage. Therefore, problems such as late arrival of funds, dislocation of funding time and project execution period and rush project reporting time will exist for a long time. To solve all these problems, we should actively strengthen communication and contact with the Beijing city board of education, timely know the actual situation of the project approval, the funds expended. All the preparatory works has been done before the project is launched, and once the project started, you can arrange the project leisurely.

**Conclusions**

The "practice ability training program” project, a part of Beijing High level talents cross training plan, is launched for the first time in Beijing and even in the whole country. To carry out the project to cultivate students' innovative thinking and improve students' scientific literacy, rigorous scientific spirit and enhance students' ability of scientific research, expand the field of vision has important significance to improve students' ability of practice and innovation. But the “practice ability training program”, a new thing, is still in the preliminary exploration stage. There are still some problems in the form of project approval, the allocation of funds and payment methods, the project period, and what kind of encouragement and restraint measures should be provided by the school, all of which need to be improved. This paper analyzes the basic situation of participating in the project of the Beijing Wuzi University, problems occurred in the implementation of the project and some follow-up measures, which can provide some reference for the other colleges in the implementation of such projects.

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