

Research on the Enhancement of Scientific Research Ability of University Students

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Abstract: *Students' scientific research ability is an indispensable part of the process of talent training in colleges and universities. How to build a scientific and reasonable scientific research platform for students, form a good atmosphere for scientific research within college students, and let students have a good scientific research accomplishment is an important issue urgently to be solved in college education under the new situation. This paper emphasizes the importance of cultivating college students' scientific research ability, and at the same time, from the perspective of students' work, puts forward the "academic department" under the student union as the main position to find the breakthrough of students' scientific research work, so as to achieve the purpose of effectively improving students' scientific research and innovation ability in the process of students' work.*

Key words: *Academic department; Student's scientific research ability; Promotion research*

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I. The significance of cultivating scientific research ability of college students

Higher education is based on cultivating virtues and talents, and focuses on cultivating students' professional ability, innovation ability, scientific research ability, practical ability, critical thinking ability, unity and cooperation ability. It adheres to the development idea of integrating production, education and research, and strives to cultivate high-quality applied talents who adapt to China's specific national conditions and local economic development. The development of colleges and universities mainly depends on the depth of cultural accumulation and the height of talent training. At present, many universities are constantly exploring, learning from and accumulating the training methods and experience of innovative talents, and gradually building a research-oriented teaching system, in which the enhancement of students' scientific research ability has become an important link.

(1) Lack of scientific research in the training process of secondary colleges

In the process of making talent training plans and curriculum setting, secondary colleges only focus on teaching, and less on the design of student work links and student research links. At present, students who want to participate in scientific research mainly rely on a few practical activities, a few courses and graduation thesis writing before graduation. Such research training mode cannot effectively mobilize students' enthusiasm for scientific research, nor can it encourage teachers to lead students to do scientific research together, which leads to the lack of students' scientific research ability.

(2) Teachers' teaching concepts and managers' management concepts have not been changed

As the first person responsible for classroom teaching management, teachers play a vital role in the process of teaching to change students' learning concepts, and administrators play a non-negligible role in the management of students' spare time. When students just enter university from high school, the vast majority of students are completely confused about the university learning mode, their own way of development and other aspects. Some students still adopt the concept of middle and high school study, immersed in reading examinations, but ignore the other important role of university education, some students, due to the lack of effective guidance, completely lost themselves. Therefore, both teachers and administrators should realize that, as an important part of whole-person education, they are not only the guide of students' knowledge, but also the guide of students' lives. Not only pay attention to the improvement of students' professional ability, but also strengthen the cultivation of students' other abilities in the process of teaching and management, and students' scientific research ability is an aspect that teachers and managers cannot ignore.

(3) The role of student activities in scientific research has not been given full play

At present, student activities in many colleges and universities seem to be lively, but it is not difficult to find that many student activities lack new ideas, low level and mere formality, and student academic departments and associations have not given full play to their application role in improving students' scientific research ability. Especially for the academic department, only doing some simple essay solicitation activities or working as an

article writer for superficial activities is not helpful to the improvement of students' dialectical thinking and academic research ability, and it will also lead to the students who participate in these activities or departments have no sense of achievement and eventually lose interest and quit.

II. Strategies for improving college students' scientific research ability

(1) School's level

When formulating policies on scientific research, schools should increase the rewards for teacher-led scientific research projects and organically unify the research of teachers and students, fully mobilize the enthusiasm of professional teachers to lead students in scientific research and the enthusiasm of students to participate in teachers' scientific research projects. Create a school-wide effort major, actively engage in scientific research, and strive to improve the atmosphere of students' comprehensive literacy.

(2) Secondary departments' level

The college should fully consider the effective integration of the first classroom and the second classroom and change the traditional teaching and management mode of teachers and administrators when making the teaching plan and curriculum setting. Teachers and administrators can organically integrate the knowledge imparted in the first classroom with the ability cultivated in the second classroom. In this way, students' scientific research ability can be effectively improved, teachers' classroom teaching can be effectively extended, and managers' education and management process can be more comprehensive and efficient.

(3) Teachers and administrators' level

In order to get rid of the embarrassing situation of teaching and management, teachers and administrators must change their concepts of teaching and management, and realize that the first classroom and the second classroom are important positions to improve students' ideological character, professional quality and comprehensive ability. There is no priority, let alone the so-called absolute division of labor. Only by fully recognizing this point can managers be integrated into the teaching process and teachers be integrated into the management process, so as to form a situation in which one is involved in the three education processes and one is involved in the other, and a comprehensive cultivation model of all-round, whole-process and whole-staff participation can be built. Let the students have a clear understanding of their future and development process from the freshman year, understand that the improvement of scientific research ability is also an important aspect to improve their comprehensive ability, so as to gradually form the learning concept of "I want to do scientific research, I can do scientific research".

(4) Students' level

The role of student activities is multifaceted. In addition to improving students' practical ability, ideological quality, professional ability and collaborative ability, it is also necessary to take the improvement of students' scientific research ability into consideration. Therefore, the academic department under the Student Union should give full play to its role in guiding students to participate in scientific research. When making the annual work plan, they should give full consideration to how to let some associations and associations with academic research potential play their scientific research functions, so that they can consciously incorporate some research topics into students' activities, so that students can improve their own scientific research ability in practical activities.

III. Conclusion

As the author has just started to work with students, this article is only based on the summary of personal experience, and some contents may not be expressed properly. I only hope that this article can attract the attention of peers on the cultivation of students' scientific research ability, and hope that the criticism and correction can be made.

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