

A preliminary study on the path of Youth League learning for science and engineering students in Independent Colleges—Taking the education mode of Information Technology Department of Peking Union Medical College as an example

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Abstract: with the rapid development of information technology, the digital summit over the years has constantly pushed the construction of social informatization and digitalization to a new height. Information technology related majors in Colleges and universities are becoming more and more popular, and the enrollment bonus has also been revealed. However, with regard to the increase in the number of students, the relevant working concepts and methods have not kept pace with the times, and the supply side reform of education has lagged behind. As an important supplement to promote the construction of a peak plateau and double first-class in Colleges and universities, Youth League work has gradually become a contradiction between school teaching, market demand and student demand. Therefore, exploring the path to solve the contradiction is an important method to realize the fundamental task of cultivating morality and talents. This paper makes a preliminary exploration on the path and concept of the Youth League work for science and engineering students in independent colleges, and analyzes the foothold of the Youth League work in Ideological and political education and technical training.

Key words: Independent College; Science and engineering students; League study work

As the position of cultivating talents with core quality in the new era, the Youth League work in Colleges and universities shoulders the comprehensive tasks of cultivating young student cadres and guiding students to realize self-management, self-service and self-education. In the process, the work of Youth League education should not only take moral education as the fundamental task, be realistic and pragmatic, but also shape excellent models of Ideological and political education for students on the basis of improving the connotation. In view of the widespread problem of “classroom indoctrination, after class indulgence, pre exam assault” among science and engineering students in independent colleges, the Youth League work should open up a new growth mode and development path for talent training in the new era with a new idea, so as to achieve synchronous development with the times, and do a good job in supply side reform in the concept of Youth League work.

Science and engineering students pay attention to the “combination of software and hardware” in the cultivation of professional ability, that is, the combination of software and hardware, and the combination of theory and practice. Along this path, we believe that the league work should also carry out the “combination of software and hardware” reform. The league work of science and engineering students should organically integrate and even integrate the first and second classes, in order to maximize the effectiveness of Ideological and political education. At the software level, i.e. from the values, ideals and beliefs to the requirements of personal quality, strive to cultivate young students of the new era with noble morality and rich connotation; Hardware - that is, the work development platform and activity requirements should have rich carriers in practice, and actively expand and strive to extend students’ living and learning space.

1. Peiyuan casts the soul, establishes people with “faith”, and deeply excavates the internal force of students

We believe that the beauty of the external environment, the improvement of facilities and the power of assistance are not as powerful as the students’ endogenous power, which is surging and never exhausting. The core of Youth League work is ideological guidance and political education. We should carry out youth league work, grasp the essence of Ideological and political education, create a “faith” culture for students, stimulate students’ internal power, and let students practice their internal skills to ensure that they have strong spiritual support and the right direction in the process of learning, working and living.

1.1 Firm and correct faith and pursue lofty ideals

The so-called faith is people’s choice and holding of outlook on life, values and world outlook. The realization of life value must not leave the requirements of social progress and civilization development, that is, the realization of life value is based on the pillar of faith. Correct thinking and correct direction are the basis and core of Youth League work, which determines students’ attitude towards campus life. The country will prosper if the youth are prosperous, and the country will be strong if the youth are strong. If the young generation has ideals, abilities and responsibilities, the country will have a future and the nation will have hope. From the perspective of the state and society, contemporary college students have great responsibilities and lofty missions. Only clear and firm political beliefs can endow them with important tasks of the times, and college students can consciously undertake the great mission of rejuvenating China. From this perspective, strengthening the cultivation of contemporary youth’s beliefs and guiding them to learn professional knowledge can actively participate in the construction of the motherland and serve regional development, Only in this way can we realize the Chinese dream and the great rejuvenation of the Chinese nation.

1.2 Stick to the bottom line of principle and be honest and trustworthy

The way of being a person is based on honesty. No man can stand without faith. At the social level, integrity is the traditional virtue of the Chinese nation, is also a good moral character advocated by people, and is one of the components of the socialist core values; At the personal level, integrity is the foundation of students' life, the cornerstone of students' success, the essential element of students' open-minded and charming personality, and the premise of forming a harmonious and friendly collective. Students need integrity, and their existence and development need integrity. Facing the problem of students' integrity, we must combine the "rule of virtue" with the "rule of law" to create a climate in which people who speak of integrity are respected and people who do not speak of integrity are despised. This is conducive to eliminating the integrity crisis of college students, promoting college students to develop the basic civic ethics of courtesy, integrity, solidarity and fraternity, and promoting patriotism, dedication, integrityFriendly socialist core values.

2. Strengthen the cultivation of students' comprehensive strength

On the basis of "faithfulness", to ensure that students have correct "Three Outlooks", correct beliefs, lofty pursuit of life, and good moral quality, we need to further anchor new goals in the work of Youth League education, so as to ensure that science and engineering students in independent colleges have strong comprehensive strength in professional development. There is still a certain gap between the science and engineering students in Independent Colleges and universities compared with the double first-class and the general provincial double non colleges and universities, especially in the theoretical literacy, but also stronger than them in the process of individual practice; But compared with colleges and universities, we have shown a higher theoretical level, but lost in the technical ability. Teaching and learning are mutual. In order to give full play to the advantages of the integrated curriculum system in the curriculum group and three levels of projects, we propose an integrated active learning method that integrates project-based learning and inquiry learning, with thinking ability and knowledge innovation ability as the core, Change the learning mode of scientific and technological knowledge and engineering ability from passive acceptance type to active learning type. Based on this, we believe that we should scientifically position ourselves, that is, on the existing basis, we must strengthen the training and application of students' professional skills. This work is not limited to the scope of teaching, but also needs to be reflected in the league work.

2.1 Strengthen technical training and improve practical operation level

Professional technology is one of the basic learning of science and engineering majors. The level of technical level determines the level of students' future rise. Only by mastering solid technology can they survive and progress in the corresponding industry. Therefore, the yardstick for students - the theoretical level should be stronger than the college level, and the technical level should be stronger than the book level. Based on this point of view, the training inside and outside the class is very important. The two teams of teaching and ideological and political work in the same direction, one pulling and the other boosting, and actively carry out all kinds of practical training work. As an important part of university courses, the practical training in class is mainly based on teaching, supplemented by ideological and political education, that is, the research-based curriculum design in professional courses, which can promote students' mastery of the courses they have learned and their practical ability. Extracurricular practical training is supplemented by ideological and political education, that is, to expand the connection and cooperation between school and enterprise and between school and locality. By expanding the practice and training base, introducing enterprise projects, opening up the channel of integration of production and education, and selecting excellent students to work in certified enterprises, students can recognize some course scores of the current semester and replace the credits of relevant courses after returning to school; Those who perform particularly well can be offered an enterprise offer after replacing credits, and sign a contract with the enterprise and hold a post after obtaining the double certificate of graduation. Through this method, enterprises can be introduced and teachers and students can go out. At the same time, teachers and students can understand the industry development and market demand, and then reverse stimulate the supply side reform of teaching and League learning work, so as to improve the students' technical level. However, the passive point of this method is that in the process of enterprise development, projects change rapidly and personnel flow is large. They need to make a positive response to the rapid changes in the market. However, the previous students in the school have a relatively fixed talent training program at the beginning of enrollment, which should not be changed and adjusted arbitrarily, and then the contradiction between the supply and demand of schools and enterprises appears.

2.2 Focus on skill improvement and inject lasting power

The difference between technology and skill is "ability", which represents the ability and energy of students in the development of the industry, and emphasizes the method of mastering technology. Skill is to explain the intensity of students' desire to learn independently after leaving the teaching environment, and to judge whether students can master new technologies through self-study to adapt to the rapid development of the information technology industry. There are significant differences between students of science and engineering and students of literature, history and economics and management. The foothold of students' ability is not simple theory, but mastering new theory and technology. At the same time, the conclusion of learning is only divided into "1" and "0", that is, success or failure. There is no so-called compromise, so students' skill training is particularly important. Teaching and ideological and political education should be timely improved on the basis of textbook knowledge system, campus culture and competition activities. Through effective and targeted external stimulation, students' ability can be further improved, so as to achieve endogenous constant power and adapt to the progress of the industry and the development of society. Based on the above-mentioned contents of technical improvement, we also require students to devote themselves to the society, serve the development of enterprises, local economy and regional industry.

2.3 Be good at questioning, dare to fight and cultivate competitive spirit

For science and engineering students, having competitive spirit is their essential basic quality, otherwise it is not enough to face the current industry development speed. Centering on “self-confidence”, students should dare to face difficulties, forge sword quality, be brave to accept new things and technologies, and not shrink back or be discouraged. Encourage students to participate actively, sharpen their competitive quality, and vividly combine their innovation ability, operation ability and theoretical knowledge.

2.4 Improve the concept of "technology" and extend the field scope

In the past, educators unilaterally believed that the cultivation places of “technology” in the league work of science and engineering students should be in classrooms, laboratories, engineering experiment centers, libraries and science and technology enterprises, while ignoring the living places of students; It is also one-sided that the cultivation of “skills” should focus on professional learning and practical training, while ignoring students’ life skills and communication skills. In view of the above situation, it is suggested to expand the cultivation area to the dormitory area, guide students to build dormitory space with health, warmth, harmony and safety as the goal, and strengthen the spiritual home function of the dormitory around the “three complete education” index system and the requirements of “spiritual civilization” construction. Take the student dormitory as an element to carry out rich and colorful dormitory cultural activities, promote dormitory civilization, drive students to spontaneously and actively carry out and participate in all kinds of recreational and sports activities, let students understand life, know how to live, love life, realize the improvement of life skills, and let science and engineering students abandon the image of instant noodles, coke, big belly, greasy hair, plaid shirt and high myopia.

3. Ideological and political guidance, teaching first, and promoting the effectiveness of Youth League education from both soft and hard sides

Youth League work is an important link and composition in the work of colleges and universities, which is closely related to the growth and success of young students. In the current environment, it is of great significance to explore and study the path of Youth League work for science and engineering students in independent colleges. In the specific work of the Youth League, leaders, front-line workers, teachers’ teams, political work teams, organizations and individuals need to improve their standing and deepen their understanding, focus on the fundamental task of cultivating morality and talents, truly educate people and talents for the country, start a new situation in the changing situation from the height of stressing politics, and strive to explore relevant work paths. Ideological and political personnel should fully understand students’ ideological trends, be familiar with students’ social concerns and common platforms, and be concerned about students’ development demands; Teaching staff should fully understand the development of the market and industry, grasp the trend of social demand, understand the difficulties of students’ professional theory learning and the application orientation of professional technology; The administrative staff should base on their posts, fully tap the service efficiency and improve the service level. The above groups should do a good job in information sharing, strengthen communication and coordination, and pave the way for students to smoothly enter the society. Therefore, the two-way promotion from “trust” and “technology” to “software” and “hardware” is an important path for the cultivation and development of science and engineering students in independent colleges.

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