Exploration on the Large Class Enrollment and Classified Cultivating of Computer Specialty

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Abstract. Specialty diversion is a key link in the reform of the training mode of large categories of enrollment talents. As an example, South China Business College of Guangdong Institute of Foreign language and Foreign Studies, this paper probes into the diversion of major enrollment majors for computer majors, including the principle and concrete implementation process of specialty diversion, analyzes some problems existing in the process of specialty diversion, and briefly describes the corresponding countermeasures.

Keywords: large class enrollment; specialty diversion; computer specialty.

1. Introduction

In today's society, compound talents are extremely scarce. As an important base for cultivating talents, colleges and universities need to increase the training of compound talents. "large category enrollment, diversion training" is the innovation of the talent training mode of "universal education" in colleges and universities. Large category enrollment refers to colleges and universities in recruiting undergraduate students, according to the subject category does not divide into specific majors. Diversion training refers to the students who enroll in large categories of students, after 1 to 2 years of basic course study, and then subdivide according to the students' learning situation and preferences and social needs on the basis of the study of large categories of subjects, and carry on the diversion training under the principle of two-way choice with the department. To a certain extent, this model not only avoids the blindness of students in the process of choosing major before entering school, but also helps colleges and universities to cultivate more compound talents and meet the needs of the times.

Compared with the previous training mode of enrollment according to specialty, this model can not only avoid the blindness of students filling in volunteerism to a certain extent, meet the needs of their individualized development, but also provide more opportunities for students to choose majors, make the choice of majors more independent and rational, and provide new ideas for the reform of education in colleges and universities and the cultivation of talents. According to the concrete practice in the enrollment and diversion of computer major, this paper discusses the problem of professional diversion.

2. The Countermeasures of "Large-scale Enrollment and Diversion Training" for Computer Majors

2.1 Make Comprehensive Preparations before Enrollment

In 2018, Nanguo Business School of Guangdong University of Foreign languages and Foreign Trade tried for the first time a large category of enrollment for computer majors, and the original computer major was unified according to a large category of enrollment of "computer". Before the implementation of "large category enrollment and diversion training", the Information College gives a certain investigation and analysis according to the characteristics of its major, the number of enrollment required and the curriculum arrangement, and combines all the computer majors with the social needs as well as the employment problems of students in the future. Doing a good job of preparation before enrollment provides a powerful basis for computer majors to implement the mode of "big class enrollment, diversion training".

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2.2 Implementation of Enrollment in Large Categories of Computer Majors

The major categories of computer include computer science and technology, digital media technology, software engineering and network engineering, according to the computer major enrollment. After admission, students organize all kinds of teaching activities according to the major categories of subjects, so that students have sufficient time and knowledge background to understand the subject, choose majors, and study the public basic courses and subject basic courses according to the common requirements of professional training specifications. The purpose is to emphasize the foundation and dilute the major. According to the characteristics of each major, it is suggested that the digital media technology should start the professional diversion at the end of the second semester, and the other three specialties should be arranged at the end of the 4th semester. At this time, it is suggested that the digital media technology should start the professional diversion at the end of the second semester. From time to time, the main major courses have been basically completed, professional teaching has not yet been fully launched.

2.3 Pay Attention to Professional Training

In the process of "big enrollment and diversion training" mode, computer major pays attention to each stage of teaching and teaches students according to their aptitude. In the big class training stage, the computer major must carry on the comprehensive explanation to the computer basic course, and unifies the big class characteristic, has the choice to carry on the teaching in the teaching, but when reaches the diversion training stage, then carries on the subdivision to the big category specialty, lets the student make certain choice according to the study condition and the interest in the big class training stage, and then carries on the thorough teaching according to each specialty. For example, the major of computer science and technology pays attention to the cultivation of computer science theory, computer software and hardware system and application knowledge. The major of software engineering pays attention to the cultivation of software theory and practical ability of software engineering, and the specialty of network engineering pays attention to the cultivation of theory, design, development and application in the technical field of computer network and communication network.

3. The Concrete Implementation of Professional Diversion

3.1 Follow Certain Principles in the Implementation of Diversion Training

The purpose of strengthening the implementation of the mode of "large category enrollment and diversion training" is to strengthen the subject foundation, dilute the professional attributes, provide students with the opportunity to choose independently, narrow the gap between the professional direction and the employment direction, and make the cultivation of talents more suitable for the needs of social development. For computer major, in the process of diverting and training students, it is also necessary to combine the social needs with the wishes of students according to the characteristics of the major.

Professional diversion can not meet the wishes of all students in practical operation. Before the professional diversion is carried out, the number of computer majors can be determined by filling out the form in order to meet the wishes of the students to the maximum extent. In the process of professional diversion, we should respect the wishes of students, take "students" as the basis, allow students to choose diversion majors according to their own personal professional development planning and interests, and avoid the burying of outstanding talents. Students' performance is also one of the influencing factors in professional diversion. According to the rules of the first and second semester study plan, the average score of the course is ranked at the GPA, and then the students are divided into major or priority. Choose, according to the students' basic professional performance and comprehensive performance for mandatory allocation. In the implementation of diversion training, it is also necessary to follow the principles conducive to the effective utilization of teaching resources and the stable development of disciplines and specialties. Only by following this series of principles
can we ensure the full implementation of "large class enrollment and diversion training" for computer majors.

3.2 Strengthening the Establishment of the Relevant System of "Large-scale Enrollment and Diversion Training"

In the process of carrying out "big class enrollment and diversion training", the students majoring in computer science formulate the corresponding system, so that the "big class enrollment and diversion training" can be standardized under the relevant system. First of all, the implementation of "large class enrollment, diversion training" is the overall reform of the talent training model, which requires the transformation of education and teaching ideas. Secondly, further optimize the layout of computer science, strengthen professional construction. The overall structure and development plan of computer specialty are readjusted in order to facilitate the integration and effective utilization of resources. Thirdly, optimize the teaching management mode. Revise the talent training plan according to the actual demand, perfect the curriculum system. In After the implementation of large categories of enrollment, teaching methods and teaching management system need to be changed accordingly. From all aspects, improve the teaching quality and improve the comprehensive quality of computer majors.

3.3 The Implementation Process of Professional Diversion

During the specific implementation of professional diversion, the principle of open procedure, transparent policy and timely communication shall be adhered to to ensure the smooth completion of professional diversion. Beginning with the second term, the College offers professional presentations to publicize students widely. According to their actual situation, students choose major according to their interests and personal development needs, and fill in the<Professional Diversion Intent Form> to choose. In principle, the volunteer of students shall be satisfied as much as possible. If the number of enrollment in a professional or professional direction exceeds the planned number of persons, the students shall be divided according to the intention of the students according to the ranking order of different grades. The unadmitted students took part in the second voluntary ranking. The specific implementation process is shown in figure 1.

![Fig. 1 The implementation process of Professional diversion](image)

3.4 Problems Existing in the Process of Professional Diversion

The choice of major is unbalanced. When the college's 2018 class of "computer" major in digital media technology was transferred, 60 people signed up, exceeding the original plan of 40 people. And the network engineering major choice intention is only 6 people. The reason is that some students are influenced by the last class, and the phenomenon of blindly "chasing the wind" is serious, which leads to the imbalance of major choice.

Whether the basis of professional diversion is scientific or not needs to be tested in practice. Whether the specific major can match with its personality characteristics after the diversion of students' major has a direct impact on the enthusiasm, initiative, initiative and smooth completion of
students' subsequent major learning. Although the principle of "score first" helps to stimulate students' enthusiasm for learning and greatly improve their initiative in learning, it is also easy for students to pay attention to curriculum learning while neglecting the cultivation and improvement of various comprehensive abilities.

Based on this, it is necessary to formulate a more scientific and reasonable basis for professional diversion on the basis of full investigation, and further strengthen the publicity of each major contained in the major of computer science. We can consider inviting some excellent alumni or senior excellent students to show up, so as to enhance the cultivation of students' sense of belonging, so as to ensure the smooth implementation of professional diversion.

4. Conclusion

There are some specific problems in the implementation of major diversion. Professional diversion is a complex project, in addition to timely professional guidance and the construction of a reasonable diversion system, it is also closely related to the professional layout of the school and the strength of teaching reform, which is related to the successful implementation of the reform of the training mode of large categories of enrollment talents. Therefore, the problems in the process of professional diversion need to be constantly explored and worked hard in the future.

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References


