Research on Educational Mode of Innovation and Entrepreneurship of College Students Majoring in Computer Specialty

Naixia Duan

Abstract

The continuous development and progress of society provides new opportunities for the development of higher vocational education of our country, meanwhile, the deepening of the educational system reform has injected new vitality into the reform and innovation of the teaching mode of computer specialty in higher vocational colleges. How to improve the quality and efficiency of the teaching of computer specialty in higher vocational colleges is the main problem of higher vocational colleges currently. This paper mainly deeply analyzes and studies educational mode of innovation and entrepreneurship of higher vocational college students majoring in computer specialty.

Key words: computer; innovation and entrepreneurship; mode

1. Introduction

With the continuous deepening of the reform of educational system, educational mode of innovation and entrepreneurship has not only become the main direction of the development of higher vocational education in our country, but also has become the inevitable trend of knowledge economy and social development in the new era. However, at present, higher vocational colleges in our country have not integrated the entrepreneurship education with the overall education of colleges and universities closely, which leads to the phenomenon of serious disconnection between education of innovation and entrepreneurship and professional theoretical knowledge, this not only has a negative impact on the play of students' professional advantages, but also affects the promotion and practical application of educational mode of innovation and entrepreneurship in higher vocational colleges.

2. An Overview of The Construction of Educational Mode of Innovation and Entrepreneurship of Students in College Computer Specialty

With the continuous deepening of the reform of educational system in higher vocational colleges, emphasis of all social circles on innovative and entrepreneurship teaching of students majoring in computer specialty has been improved. In order to effectively integrate innovation and entrepreneurship education with education of students' professional knowledge, teachers must take active and effective measures in the teaching process to increase the intensity of teaching mode reform and innovation, so as to fundamentally promote the teaching efficiency of computer major in higher vocational colleges. Because there are great differences between the new teaching mode and traditional teaching mode, and this teaching mode pays more attention to the quality of students' practical study, so that the students in the study of professional knowledge, can also fully understand and master their own ability, lays a good foundation for the improvement of their own potential ability. Students learn knowledge in this teaching mode, which is of great significance to the formation of their innovation and entrepreneurial behavior. And this also further shows that the teaching mode of innovation and entrepreneurship has a positive promoting effect on the...
improvement of the comprehensive quality of the students of computer specialty in higher vocational colleges. Higher vocational colleges make full use of this teaching mode, not only promote the steady improvement of the quality of teaching of computer specialty, but also have a very important role in cultivating compound social talents with high comprehensive quality.

3. Analysis of The Current Situation of Computer Specialty in Colleges and Universities of Our Country

Although the computer set off a huge computer boom in the stage of just walking into people's lives, this enthusiasm did not last long. The development of teaching of computer specialty in higher vocational colleges of our country is also very worrying. The obstacles encountered by teaching of computer specialty in the process of development have exerted serious effects on its development. Therefore, higher vocational colleges must stand in the perspective of the development of colleges and universities, to deeply analyze the problems existing in the teaching process of computer specialty, so as to explore the way suitable for the teaching development of computer specialty in higher vocational college, and in order to achieve this goal, we must do the following aspects of work.

First of all, the higher vocational colleges must deeply analyze the reasons that lead to students in computer specialty always cannot improve, and the problems faced by students after graduation in the process of employment. Although the higher vocational colleges have gradually reduced the fractional line of professional admission for the purpose of meeting the requirements of the job market, and have reduced the number of admissions, the number of students majoring in computer specialty in higher vocational colleges of our country has shown a declining trend year by year. In other words, for their smooth employment after graduation, the majority of students will take the most popular professional as their first choice in the process of professional choice.

Secondly, the update speed of information network technology constantly accelerate, computer specialty has not shown a glorified side. At the same time, with the emergence of a large number of various computer training institutions in the society, the new computer boom also has a serious impact on the enrollment of computer specialty in higher vocational colleges. The emergence of such problems is mainly due to that information network technology in the new era has entered the era of rapid development and renewal. However, in the process of social development, it is lack of compound high-end computer talent. For example, the demand of computer talent market for professional and excellent computer talents is still very large. In other words, at present, the existing talents in computer specialty of our country have been unable to meet the requirements of computer post in new era. The various computer training structure in the society appear just in this actual situation, and its popularity is much higher than computer specialty in higher vocational colleges.

Finally, at the present stage, there is a serious disconnection between computer specialty in higher vocational school and social reality. Although the computer professional course is a specialized course with strong social practice, students only learn the relevant theoretical knowledge in the process of learning in colleges and universities, and actually carry out very little practice. This causes many students can not apply the knowledge they have learned to the practical work after graduation. The main cause of this phenomenon is that teachers of computer specialty in higher vocational college do not take the practical need of society as the basis of developing teaching activities in the process of teaching, thus it causes the deviation between the teaching of computer specialty in higher vocational school and the social demand.
4. Practice of The Education of Innovation and Entrepreneurship in Computer Specialty

The practice of education of innovation and entrepreneurship in the teaching of computer specialty in higher vocational school must take social needs and professional development as the basis, actively carry out the reform and innovation of teaching mode, only in this way can we build a new type of educational platform with the combination of production, teaching and research, and achieve the purpose of constantly promoting students' ability of innovation and entrepreneurship.

4.1 Reform in Teaching
4.1.1 Perfect Curriculum System

In order to improve the teaching efficiency and quality of computer specialty, higher vocational colleges must be based on the existing curriculum system, to further increase the number and types of practical courses to meet the needs of students' innovation and entrepreneurship, only in this way can we achieve the goal of cultivating high quality comprehensive talents suitable for social development needs. Higher vocational colleges can set up the corresponding courses according to the actual needs of the development of colleges and universities, in this process, the courses, such as curriculum design, etc., must be fully open to students, so that students can freely carry out the combination of knowledge content according to their own learning needs and interests; and those courses that are open to some students, such as computer high-level language programming and other selective courses, are set up mainly for students participating in the ACM programming contest.

4.1.2 Update Teaching Content

The teaching contents of the computer specialty course must increase case teaching of innovation and entrepreneurship suitable for students development in the process of design, further improve the proportion of practice curriculum teaching. In addition, for some basic knowledge, only by increasing the proportion of experimental teaching in teaching activities on the basis of ensuring that the students master the theoretical knowledge, can we effectively promote the further improvement of students' practical ability. And the explanation of knowledge of selective course can transfer knowledge from the classroom to the computer room, adopting the teaching method of explanation and experimentation at the same time, to achieve the purpose of promoting students to deepen understanding and mastery to knowledge content.

4.1.3 Improve Teaching Methods

Teaching of computer courses in higher vocational colleges must be based on the learning interest of the students, scientifically and reasonably set up teaching content, adopt the way of knowledge explanation from shallow to deep, only in this way can we make the students really master the relevant technical knowledge, and lay a good foundation for the further improvement of the ability of solving problems.

4.1.4 Strengthen Teaching Team

In order to promote the steady improvement of teaching quality and efficiency of computer professional course, higher vocational colleges can take the method of inviting technical staff of IT companies which have greater influence in society to hold the post of part-time teacher, let them undertake the teaching task of specialized courses, focus on the development of project management and the explanation of practical experience.

4.2 Construct Training System of Innovation and Entrepreneurship
4.2.1 Special Training

Making full use of the opportunities provided for students' innovation and entrepreneurship by competition activities, such as ACM programming contest, computer design contest, innovation and
entrepreneurship competition of college students, innovation and entrepreneurship project, etc., and closely combining with the talent training mechanism of computer specialty in higher vocational college, to set up special training according to the needs of students. And as the key content of the whole educational mode, this training must do the following two aspects of work in the process of implementation.

First of all, it is necessary to take the competition of the computer professional disciplines as the content of the daily teaching, and require all students to participate actively. If the students do not have a solid grasp of the knowledge of computer professional course, so they cannot achieve good results in the discipline competition. Therefore, teachers must combine discipline competition and course teaching closely in the process of teaching, make discipline competition gradually penetrate into classroom teaching of the whole professional knowledge. Moreover, in addition to actively carry out the reform and innovation of teaching mode, it must combine the discipline competition with the specialized courses closely, according to the characteristics of discipline competition, in the process of classroom teaching, only through the way of introducing real topic, can the students' learning enthusiasm and initiative be fully aroused. The teaching method of curriculumization discipline competition, not only fully stimulate the enthusiasm and initiative of students to learn knowledge, but also achieve the purpose of promoting further improvement of teaching quality and efficiency of computer professional course.

Secondly, the discipline competition must be closely linked with the professional courses. Because this new teaching method has gone beyond the content of textbook knowledge, so in the process of discipline competition, it must be guided and helped by professional teachers, and the effective cohesion of discipline competition, must from the vertical and horizontal of professional knowledge to conduct a comprehensive cohesion, only in this way can we fundamentally promote the teaching quality and efficiency of computer professional course in higher vocational colleges. In other words, it is necessary to further strengthen the cooperation between different professional students, learn from other students' strengths, so as to ensure the smooth promotion of the teaching method of discipline competition in the teaching of computer professional course.

4. 2. 2 Unite to Culture

Strengthening cooperation between higher vocational colleges and related enterprises. Higher vocational colleges can select teachers with outstanding business ability to go deep into the cooperative enterprise in spare time, make them get exercise in the process of the implementation of specific projects, this is helpful to the comprehensive understanding and grasping the management concept of enterprise, and increasing their practical experience. At the same time, higher vocational colleges also can hire experienced engineers in the company to enter the university for explanation of professional knowledge and practical experience.

4. 2. 3 Participate in Teachers' Project

Scientific research project implemented by teachers of computer specialty in higher vocational colleges has a positive promoting effect on the cultivation of students' ability of innovation and entrepreneurship. This requires teachers to formulate scientific and reasonable election mechanism in the process of the implementation of scientific research projects, and provide excellent students with the opportunity to participate in teachers' scientific research projects, so as to achieve the purpose of promoting students' scientific research and innovation ability.

4. 3 Build The Education Platform With Combination of Production, Learning and Research

Computer specialty in higher vocational colleges must further strengthen cooperation with IT
enterprises, actively carry out the construction of the practice base outside school, build a new education platform with combination of production, learning and research for students and enterprises, so as to fundamentally realize the purpose of promoting students' ability of innovation and entrepreneurship.

5. Conclusion

In a word, the educational mode of innovation and entrepreneurship carried out by higher vocational colleges plays an extremely important role in the process of teaching of computer professional course. This requires that the teachers of computer specialty must actively carry out the reform and innovation of teaching mode, so as to fundamentally promote the teaching quality of computer professional course in higher vocational colleges. In addition, the application of this new teaching mode has fundamentally promoted the comprehensive development and improvement of individual comprehensive quality of students in higher vocational colleges, and has laid a good foundation for cultivating compound talents with high quality, who are suitable for the needs of development of modern society in our country.

Acknowledgement

Fund project: Research project of Shaanxi institute of international trade & commerce: Research on the educational mode of innovation and entrepreneurship of students major in computer specialty.

Reference


