On the Cultivation of Applied and Innovative Talents Majored in Information Management and Information System

Zhang Rui, Yang Tao, Ji Lirong, Li Xijiang, Wu Yuanbo

Yunnan Economic Trade and Foreign Affairs College, Kunming, 650114, China

Keywords: Information management, Information system major, Innovative talent

Abstract: With the continuous improvement of social economy, China's higher education has also been reformed and innovated. Information management and information system is an interdisciplinary subject, which is not only an organic combination of management and information technology, but also an applied training major integrating economics, computer science and management. With the continuous development of society, science and technology and education, there is a greater demand for applied and innovate talents from all walks of life. Based on this, this paper analyzes the current situation of information management and information system major, social demand for applied and innovative talents, as well as their cultivation.

1. Introduction

With the continuous development of society and improvement of China's economy, higher education experiences a leap forward transformation from elite education to mass education. Under the background of mass education, there is a greater demand for talents, especially for applied and innovative talents. The so-called applied talents are not those trained under the guidance of academic elite education, but those vigorously trained from non intellectual aspects and oriented by mass education and unit demand. For innovative talents, they should not only have a strong self-learning ability and knowledge structure, but also master the skills of some professions. The most important thing is that they need to have the ability to apply knowledge and carry out technological innovation. Applied and innovative talents can be said to be the complex of applied talents and innovative talents, who are able to creatively apply science and technology to the process of production practice. Not only that, they are also capable of realizing application in innovation and innovation in application. Because of their existence, China transforms science and technology into productivity. Since the reform and opening up, China has changed from a big industrial country to an industrial power. At this stage, there is also in an urgent need of more applied and innovative talents who can transform scientific and technological achievements into productive forces. Although the number of technical talents in our country ranks first in the world, there are relatively few applied and innovative talents. It is just because of the lack of these talents in our country, under the background of rapid development of information technology and economy, information management and information system major is facing great challenges in teaching content, teaching form, and talent training mode. To promote the rapid development of discipline, relevant professionals are not only required to possess computer knowledge, management foundation and application ability, but also master the knowledge and skills of information management and system analysis. Moreover, in order to adapt to the continuous development of information technology, professionals also need to have certain innovation ability and quality. Therefore, to meet the development needs of modern education and information management and information system discipline, colleges and universities are demanded to continuously explore and innovate the training mode and teaching content of talents.

  DOI: 10.25236/icembe.2020.042

2. Current Situation of Information Management and Information System Major

2.1 Social Background

Nowadays, with the continuous development of information education, there is a greater demand for innovative talents in IT technology. The competition of IT industry is actually the competition among talents. To develop IT industry better, China needs to cultivate and build high-level IT talents and teams. Therefore, with the continuous reform of information management and information system major, colleges and universities should also pay attention to the cultivation and reserve of high-quality and applied IT talents.

2.2 Situation in Colleges and Universities

In the process of training applied and innovative talents, it is of necessity to stress the learning of management knowledge and instill the cultivation concept of management talents into students. There is also an over exaggeration of the importance of computers. In teaching, students are arranged to learn all the courses related to computers, which also makes the information management major quite close to computer major. In addition, many teachers only impart the theoretical knowledge to students. There is no organic combination between the application of curriculum system with teaching. Therefore, a series of problems exist in the process of curriculum system convergence [1].

3. Orientation of Information Management and Information System Major in Training Applied and Innovative Talents

The talent training mode is an operation system based on the overall grasp of the constituent elements and operation method of talent training. It effectively realizes teaching methods and training objectives. For the talent training mode, the training goal is the core. Through reasonable positioning of training goal, the level and quality of training are guaranteed. However, to achieve the goal, colleges and universities should not only plan and design talent training, but also make professional direction, teaching content and plan according to the actual needs of social development. Through the arrangement of professional teachers and managers to guide students, the training needs of applied and innovative talents will also be met. Moreover, in order to reasonably position the training objectives, colleges and universities are not only demanded to fully understand the major characteristics, but also take the management discipline as the basis and adopt modern information technology. The information management and information system is actually an interdisciplinary and applied major, in which, students learn the knowledge related to information system construction and management as well as master the methods and skills of applying information technology and management theory. In the process of teaching, colleges and universities are required to stress the cultivation of students' professional ability, so that they are able to cultivate more applied and innovative talents who possess modern management knowledge and apply computer network technology to design and develop information system.

In combination with the talent training mode and characteristics of information management and information system major, in order to position the training objectives, it is necessary to firstly grasp the market demand and local economic development demand. Secondly, with the continuous development of market economy, enterprises are facing increasingly fierce competition. Therefore, the training goal should be dynamic. Colleges and universities must adjust it according to the current social and economic changes. Only by strengthening students' mastery of theoretical knowledge in accordance with the training objectives, and effectively cultivating their own operational ability and innovation ability, can the social and economic development needs be fully met [2].

4. Training Mode of Applied and Innovative Talents

4.1 Update Training Concept

In the process of training applied and innovative talents, colleges and universities need to update the training concept and change the traditional training mode. More focus is asked to pay on the coordinated development of knowledge and ability. With the continuous implementation of quality education, the cultivation of innovative talents has become the main content of teaching. In order to reasonably construct the training mode of innovative talents, the dialectical unity of knowledge, ability and quality is demanded to be achieved. More than that, during the formulation of talent training program, colleges and universities also need to add the cultivation of students' basic quality and implement it in the teaching process. Only by cultivating students' knowledge and quality, and paying attention to their scientific thinking and methods of humanities, can students develop in an all-round way. Finally, the update in the narrow teaching content, teaching methods and technical means, coupled with the reasonable control of the amount of teaching information, will make students have enough time for autonomous learning and thinking [3].

4.2 Scientific Innovation of Theory and Practical Teaching System

With the continuous development of national economy, there are more diversified needs for talents, especially for applied and innovative talents. Therefore, to cultivate more talents who meet the needs of social and economic development, theory of talent training and practical teaching system must be combined organically. Theoretical teaching system is the carrier of knowledge, which is also the embodiment of frontier and cross synthesis. Therefore, there is a reasonable need for adjustment in curriculum system and update in teaching content in real time. Only in this way can students master the latest knowledge and understand the development trend of the discipline. On this basis, students will be able to combine knowledge and ability to make breakthrough and innovation. In terms of teaching practice, colleges and universities needs to clarify the teaching requirements of the subject, and change the teaching mode of ignoring practice. At the same time, no matter what major, they need to have their own characteristics. Therefore, in the process of teaching system innovation, colleges and universities are advised to cultivate the basic knowledge, practical ability and innovative spirit of talents in combination with the national economy and enterprises, so that the training specifications of applied and innovative talents will be fully reflected. In addition, during teaching, theory should be combined with practice organically. The experimental teaching, social practice and other links should not only improved, but also controlled from the aspect of time and effect. Whether it is theoretical teaching or practical teaching, enough attention needs to be attached.

4.3 Effective Training of Students' Cooperation Ability

During teaching period, teachers need to fully reflect students' dominant position, and combine students' main role and teachers' leading role organically, so that a good teacher-student relationship will be established. In addition, teachers are suggested to train and cultivate students' thinking with the help of questioning and heuristic teaching methods, which not only stimulates students' learning enthusiasm, but also fully taps their potential. Students will change from passive learning to active learning. Taking ERP course teaching as an example. Teachers are suggested to enumerate cases related to JIT production management for students. Students are questioned and guided in combination with cases. They can also be arranged to conduct a comprehensive analysis of these cases and active discussion, so that they are able to find the teaching ideas about JIT with teachers' summary guidance. In this method, students' interest in learning professional knowledge is stimulated. They will have a deeper understanding of JIT teaching ideas and further reasonably apply these ideas to scientific research and practice activities. Finally, teachers are also advised to use advanced teaching methods, such as multimedia technology and network technology, so as to make reasonable courseware. With the help of two-way interactive educational technology platform, teachers are capable of carrying out all kinds of teaching practice activities, which is conducive to

effectively improving the quality and efficiency of teaching. By creating a good teaching environment for students to exchange and share knowledge, their collaborative learning ability will also be effectively cultivated [4].

5. Conclusion

In a word, with the continuous development of information technology and management science, information management and information system major has also undergone corresponding changes. For this major, the integration and intersection of disciplines is the characteristic of its development. Nowadays, there is a great demand for talents with strong professional knowledge and innovative practice ability. In this situation, colleges and universities need to change the professional teaching concept, and adopt a more open and flexible training mode to cultivate talents. Moreover, the cooperative training mode of production, learning and research should be innovated continuously. In addition, the assessment and evaluation system needs to be perfected and improved. In this way, Chinese colleges and universities will cultivate more applied and innovative talents to meet the needs of social economy and scientific and technological development.

References

[1] Li Li, Li Yongping. (2013). Research and Practice of Innovative Quality Training of E-commerce Logistics Applied Talents -- Taking Information Management and Information System Major as an Example. Logistics Technology, vol. 32, no. 12, pp. 453-456.

[2] Zhao Feng, Jiang Yuyan. (2009). Cultivation of Applied and Innovative Talents of Information Management and Information System Major. Journal of Wanxi University, vol. 25, no. 4, PP. 30-33.

[3] Mi Li, Wang Zhenguo, He Yong, et al. (2018). Construction and Practice of Applied Talents Training System for Information Management and Information System Major Based on the Advantages and Characteristics of Traditional Chinese Medicine. China Medical Guide, vol. 15, no. 13, pp. 97-100, 104.

[4] Liu Jun, Hou Peiliang, Sun Guilan. (2018). Analysis on the Curriculum Construction of Information Management and Information System Major -- Taking Qingdao Institute of Technology as an Example. Science and Education Culture, vol, 34, pp. 87-88.