Research and Analysis on the Methods of Curriculum Construction and Innovation of Electronic Information Majors

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Abstract: In the era of digitalization, information and intelligence, the electronic information industry has become an important engine to promote the development of national economy and social progress. As the training of professionals in the field of electronic information, the importance of its curriculum construction and innovation is self-evident. The electronic information major course not only teaches students 'basic theoretical knowledge, but also cultivates students' practical ability, innovative spirit and comprehensive quality to adapt to the rapidly changing technological environment and market demand. At present, electronic information technology is developing rapidly in the world, and new theories, technologies and applications emerge in an endless stream. This provides a broad space and infinite possibilities for the development and innovation of the electronic information trunk course. However, in such a background, how to find a suitable for China's national conditions of electronic information professional development and innovation road, to cultivate high-quality talents with solid theoretical foundation and strong practical ability, is a huge challenge in front of us.
Keywords: electronic information, curriculum construction, innovation

Introduction

In the information age of the 21st century, as an important part of the university education system in China, electronic information majors are particularly important. With the development of science and technology, especially the rapid development of information technology, the speed of knowledge update in the field of electronic information is accelerating, which puts forward higher requirements for the construction and innovation of electronic information professional courses. At the same time, China's higher education is facing the challenge of the transformation from scale expansion to quality improvement, and the curriculum construction and innovation of electronic information major have become the key link to improve the quality of university education. At present, there are some problems in the curriculum construction and innovation of electronic information major in China, such as improper curriculum setting, conflict between theory and practice, single teaching method, and slow content update. These problems have greatly affected the training of electronic information professionals, so they need in-depth research and effective solution.

1. The significance of the course innovation of the electronic information major

1.1 To meet the needs of scientific and technological progress

The development of electronic information major is closely related to the progress of science and technology. With the continuous emergence of new technologies and new ideas, the content of electronic information specialty must be

constantly updated to meet the needs of science and technology. Through the innovation of information curriculum, scientific and technological achievements and new knowledge are integrated into the teaching, so that students can keep pace with The Times and understand new knowledge and new skills.

1.2 To cultivate students' innovative spirit and practical ability

The innovation of electronic information professional courses not only helps to improve information skills, but also encourages students to develop innovative spirit and practical ability. In classroom teaching, through the introduction of data analysis, practical experiments, collaboration and other teaching methods, stimulate students 'interest and initiative in learning, and cultivate students' ability to think independently and solve problems. At the same time, through the practice class, students can use their own practical ability to improve their practical skills.

1.3 To promote the construction and development of the teaching staff

Curriculum innovation puts forward higher requirements for the teaching staff. In order to realize curriculum innovation, teachers need to constantly update their knowledge structure and improve their professional level and teaching ability. In this process, teachers can improve their comprehensive quality by participating in training, academic exchanges, industry-university-research cooperation and other ways. Thus forming a virtuous circle, to promote the construction and development of teachers.

2. Problems existing in the process of the construction and innovation of electronic information professional courses

2.1 The course content update lags behind, and it is difficult to adapt to the rapidly changing technical environment

Technology in the field of electronic information is developing rapidly, and new theories, new technologies and new applications are emerging in an endless stream. However, in the current course construction of electronic information major, the speed of course content update often lags behind the speed of technology development. This makes it difficult for students to relate knowledge learned in school to practical applications, and significant time must be spent relearning and adapting after graduation. In addition, some traditional curriculum content is outdated to meet current industry needs, which also leads to a lack of competitiveness in the job market.

2.2 The lack of practice links, students' practical ability and innovative spirit training is limited

Electronic information major is a highly practical subject, and students' practical ability and innovative spirit are very important for their future development. However, in the current curriculum construction of the electronic information major, the practical connection is often ignored or underestimated. As a result, students can not get practical opportunities and practical experience in school, and it is difficult to transform theoretical knowledge into practical application. At the same time, due to the lack of practical support, it is difficult to cultivate and develop students' innovative spirit.

2.3 The curriculum evaluation system is not perfect, and it is difficult to accurately evaluate the effect of curriculum construction and innovation

Curriculum evaluation system is an important guarantee for curriculum construction and innovation. However, in the current development of electronic information professional courses, the curriculum evaluation system is often imperfect, and teachers cannot accurately evaluate the impact of curriculum construction and innovation, so as to provide effective reference and benchmark for further curriculum construction. In addition, the existing curriculum evaluation system using test scores, student satisfaction survey of quantitative evaluation, and for innovative course content, advanced teaching methods are lack of in-depth analysis and evaluation, cannot fully reflect the actual situation of the construction of the

course, also can not provide effective guidance for curriculum innovation.

3. The path of electronic information professional course construction and innovation

3.1 Clarifying professional positioning, and optimizing the curriculum system

The electronic information major should closely combine the national development strategy and the market demand, clarify the major positioning, and optimize the curriculum system. To be successful, the course should first pay attention to the national development strategy, understand the development trend of the new generation of information technology, artificial intelligence, big data and other advanced fields, integrate relevant technologies and information into the course, and its content should be in line with the national development strategy. Secondly, in order to make the course content more close to the reality, it is necessary to strengthen the communication and cooperation with enterprises, understand the development trend of the industry and the market demand, and adjust the curriculum according to the market demand. Finally, we should pay attention to improving students' comprehensive quality, strengthen general education and interdisciplinary courses, and improve students' comprehensive quality and innovation ability.

3.2 Strengthening the construction of the teaching staff and improving the quality of teaching

Excellent faculty members are the key to curriculum design and innovation. Therefore, electronic information majors should strengthen the structure of teachers and improve their teaching level and innovation ability. First, we should actively introduce high-level talents, attract outstanding talents from home and abroad to join the teaching team, and improve the overall quality of the teaching team. Second, we should strengthen teacher training and education, regularly organize teachers to participate in academic exchanges, educational seminars and other activities, and improve teachers in their teaching level and innovation ability. In addition, incentives must be established to encourage teachers to actively participate in the development and renewal of the curriculum, and to provide teachers with sufficient development space and a good working environment.

3.3 Strengthening the practical teaching link and Cultivating the students' practical ability

Electronic information major is a very practical subject, which should strengthen the connection with practical teaching and improve students' practical skills. The school should strengthen the construction of the laboratory, increase the development and improvement of the experimental equipment, and provide a good practice environment for the students. At the same time, the content and methods of practical teaching are enriched, and teaching methods such as project-based and case-based teaching are introduced to guide students to actively participate in practical activities and improve students' practical ability and innovation ability. In addition, school-enterprise cooperation should be strengthened, and practical training centers and laboratories should be built to provide students with more practical opportunities and experience.

3.4 Promoting the integration of curriculum and technology, and innovating the teaching mode

With the rapid development of information technology, the electronic information major should actively promote the integration of curriculum and technology, and update the teaching mode. First, we should make full use of modern information technology tools such as online courses, MOOCs and micro-courses to create an online and offline teaching model to improve the teaching effect and learning experience. Second, the application of new technologies and new methods such as artificial intelligence and big data, optimize the teaching process and evaluation system, and improve the teaching effect and learning results. In addition, students should also be encouraged to study independently and study through inquiry, stimulate students 'interest in learning and innovative spirit, and cultivate students' independent learning ability and lifelong learning ability.

3.5 Improving the evaluation system to promote the sustainable development of curriculum construction and innovation

A sound system is the main guarantee of construction and innovation. Therefore, the electronic big data should be evaluated scientifically, and the curriculum construction and innovation should be evaluated comprehensively and objectively. First of all, the evaluation objectives and standards should be clear, to create the evaluation that is in line with the professional characteristics and realistic needs. Secondly, questionnaire survey, interview and teaching evaluation should be used to collect comprehensive statistical data. In addition, we should pay attention to the application and feedback of the evaluation results, immediately adjust the ideas and suggestions of construction and innovation, and support the development of construction and innovation.

4. Conclusion

In a word, the construction and innovation of electronic information professional curriculum is a long-term and arduous task. With the rapid development of information technology and the increasing global competition, the development and innovation of electronic information professional curriculum have become an important part of education and business. After in-depth research and discussion, it is not difficult to see that the construction and innovation of this major is a system engineering involving broad aspects. In this process, teachers must have a vision of the future, follow the development of science and technology, and constantly improve and perfect the educational process, in order to meet the needs of the society and the students. In the future, the innovation of electronic information professional courses should be diversified, open and stable. Teachers must be industry demand-oriented, constantly update and improve the classroom content to ensure that students acquire the latest knowledge and skills. At the same time, strengthen teaching activities, improve students' practical ability and innovative spirit, to achieve the effective improvement of comprehensive quality.

Conflicts of interest

The author declares no conflicts of interest regarding the publication of this paper.

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Authors' Introduction

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