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The reform and exploration of integrating ideological and political elements into Linux curriculum

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Abstract: To integrate "ideological and political education" into professional courses is the internal demand of colleges and universities to deepen curriculum reform and realize full and all-round education. The present situation of Linux course is analyzed, and the existing problems are put forward. Then, combined with the teaching requirements and contents of Linux, the ideological and political elements are mined, and specific typical cases are used to carry out ideological and political education, constantly improving the overall teaching design with ideological and political elements integrated. Moreover, the "student-oriented" should be put into practice, with the learning effect of students as the evaluation standard and the purpose of promoting the development of students. Finally, we should strengthen the proportion of curriculum ideology and politics in teaching assessment and evaluation, and give full play to the leading role of curriculum ideology and politics. In order to achieve the effect of professional courses and ideological and political courses collaborative education.

Keywords: Teaching reform; Ideological and political class; Linux; Ideological and political education.

1. Introduction

Under the background of the new era of education development in China, we should pay attention to the ideological and political education in universities. The values of college students are in the developing stage, and they lack the ability to identify and judge various cultural information, so they are easy to be involved in the complicated vortex of ideological trends. This requires teachers to stand firm on the platform, highlight the value orientation in the curriculum, and escort the growth and development of students. However, ideological and political courses are generally offered in the lower grades of undergraduates, and the proportion of courses is small. In order to implement moral cultivation into the whole process of talent training, ideological and political courses are not enough. Ideological and political construction of courses should be carried out, and ideological and political contents contained in basic professional courses and professional courses should be deeply explored. Therefore, promoting curriculum ideological and political construction is an important measure to keep a good channel, plant a good field of responsibility, make all kinds of courses and ideological and political courses in the same direction, forming a synergistic effect. To integrate "ideological and political education" into professional courses is the internal demand of colleges and universities to deepen curriculum reform and realize full and all-round education.

2. Analysis of the current situation of Linux curriculum

Linux operating system as a computer and electronic information engineering major courses, this course requires students to master the Linux system under the character interface of the system management, configuration and other operations. At present, the teaching of this course mainly adopts the traditional teaching method, which generally has the following three problems:

(1) Single curriculum system. Linux operating system is a highly practical engineering technology course. In the past teaching practice, teachers often only pay attention to the cultivation of students' basic theoretical knowledge and basic skills, ignoring the value building of students and failing to fully integrate ideological and political elements into the daily teaching process, which is contrary to the essence of "education-oriented" higher education.

(2) It is difficult for teachers to understand the learning status of the whole class. The teacher-oriented teaching mode is basically teacher-led, so teachers cannot better understand the degree of students' cognition of ideological and political affairs.

(3) Lack of systematic ideological and political design of the curriculum. Linux operating system is a professional engineering course with strong operability. If the ideological and political content is directly taught, it will be awkward and difficult for students to accept. Therefore, it is a problem to be solved to simultaneously design the content of course teaching and the content of ideology and politics, to make the content of ideology and politics seamlessly embedded in the content of course teaching, and to form a teaching system that integrates the content of course with ideology and politics.

3. Ideological and political elements into the construction practice of Linux curriculum

3.1. Curriculum ideological and political design concept

The key is to integrate ideological and political elements into the course reform of Linux operating system, to explore the combination of course teaching knowledge and ideological and political elements, and to design appropriate teaching programs and course resources. In the process of teaching and implementing curriculum ideological and political thinking, we should pay attention to the propaganda of patriotism, the correct orientation of ideals, beliefs and value orientation, cultivate the craftsman spirit of cautious, hard work and perseverance, and train students' awareness of innovation and entrepreneurship, so as to meet the requirements of cultivating information engineering talents in

the new era of socialism with Chinese characteristics.

We should expand the new teaching methods of Linux operating system course and improve the overall teaching design integrating ideological and political elements. Education belongs to "learning" rather than "teaching". "Student-oriented" should be implemented, with students' learning effect as the evaluation standard and the purpose of promoting students' development.

3.2. Mining ideological and political elements

The ideological and political content of the course should be designed synchronously with the course teaching content, and the ideological and political content should be embedded in the course teaching content. The ideological and political themes of the course should be established according to the course content, and ideological and political elements should be mined to carry out ideological and political education with specific role models and typical cases. The construction idea is as follows: moral cultivation thoughts → curriculum ideological and political goals → ideological and political themes → ideological and political elements → ideological and political teaching content.

Firstly, through the selection of cases, the detailed teaching design of typical ideological and political teaching cases of the course was carried out, and a set of curriculum standards and teaching plans of Linux operating system integrating ideological and political elements were formulated. Each module consists of a different teaching unit. Each module can establish a curriculum ideological and political theme, excavate the corresponding ideological and political elements of teaching units. According to the idea of teaching system construction, we should first establish the course teaching objectives and ideological and political objectives, and then construct the teaching content and ideological and political content, so that the course teaching content and the course ideological and political content integration. Then, according to the implementation plan of typical ideological and political teaching cases, the teaching resources of the course are updated, including teaching plans, teaching PPT, teaching videos, examination question bank and other online and offline teaching resources.

3.3. Ideological and political education was carried out

By adopting innovative teaching methods and means and interactive teaching modes such as case analysis, project-oriented, task-driven, thematic discussion and questionnaire survey, students are guided to use their brains, think more analytically and explore more frequently, and stimulate their interest in learning.

A hybrid teaching method combining online and offline is adopted. Offline teaching is carried out in multimedia integrated classrooms. For example, teaching method, demonstration method and experimental operation method are adopted in the chapter of document and catalog operation, which is introduced into the ideological and political content of abiding by discipline, obeying management and norms of behavior. In the chapter of process management, case analysis method, demonstration method, experimental operation method and problem discussion method are adopted to introduce the ideological and political content of world outlook, life outlook and values. In online teaching, we provide students with abundant online resources for independent learning by using Learning Link, Tencent Conference and QQ. Micro-videos and electronic courseware are used as carriers to impart knowledge and ideological and political content of the course. Teachers give discussion topics, and students demonstrate the effect of ideological and political learning through communication and reporting. The specific classroom development process is as follows:

(1) Throw out a topic before class and trigger thinking: Before teaching the new class, let the students preview the new class at the same time, prepare a small speech, the content can be facts, news, good people around, safety precautions, scientific laws, etc. Guide and improve students' ability of independent study of ideology and politics.

(2) Task-driven in class: Before the class, select a student to share the prepared speech with everyone for 5 minutes. During the course, ideological and political elements should be properly integrated into the explanation of professional knowledge. Let the students learn professional knowledge at the same time, naturally accept and learn the ideological and political content.

(3) Group discussion: The students were divided into groups to discuss and complete the specialized course tasks. At the same time, the students took the initiative to explore the content related to the class and ideology and politics, and shared it with other students in the group presentation.

(4) After class consolidation, teachers arrange homework or practical projects after class to improve students' practical ability.

3.4. Evaluation of ideological and political education

In the teaching practice of in-depth integration of ideological and political education and curriculum teaching content, we should make a good summary of teaching implementation, formulate the assessment design plan of curriculum ideological and political teaching content, improve the evaluation and assessment system of curriculum teaching, strengthen the proportion of ideological and political education in teaching assessment and evaluation, and give full play to the leading role of curriculum ideological and political education.

4. Conclusions

It is the key and difficult point of ideological and political construction to seamlessly embed ideological and political content into the course teaching content and form a teaching system that integrates the course content with ideological and political content. By analyzing the teaching status of Linux course and the goal of ideological and political education, this paper puts forward a series of measures to explore ideological and political elements, implement steps of ideological and political education and evaluate the reform of ideological and political education. In the future, this teaching model will be applied to the actual teaching process of the teaching unit where the author works, and it will be continuously improved and promoted through the information feedback of teachers and students.

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