

A Study on the Course Thinking of "Electromechanical English" under the Concept of "Immersion"

Zhang Xiaoyuan*, Fan Jianqiang, Li Haikang, Ma Yan'e

School of Intelligent Engineering, Jinzhong College of Information, Jinzhong, China

*Corresponding author: zhangxiaoyuan41@163.com

Abstract: Professional English is an important professional course, which should guide students to establish the correct outlook on life and values in terms of value leadership. The professional English of electromechanics is mainly mechanical and electromechanical vocabulary, taking into account electronics, automation, intelligent manufacturing and other specialties. Based on the concept of "immersion" teaching, this paper naturally integrates the content of Civic Affairs with the course of "Electrical and Mechanical English" and integrates the education of ideological and moral qualities into the teaching of professional English. At the same time, it also provides a basis for the construction of ideology and politics in colleges and universities.

Keywords: Professional English; Curriculum thinking; "Immersion"

1. Introduction

Curriculum thinking and politics refers to a comprehensive education concept of constructing a whole-person, whole-course and whole-curriculum education pattern, and making all kinds of courses and ideological and political theory courses go in the same direction to form a synergistic effect, and taking "building moral and educating people" as the fundamental task of education. General Secretary emphasized that the ideological and political work of colleges and universities is related to the fundamental issue of what kind of people they train, how to train people and for whom to train people. We should insist on making moral education as the central link, running the ideological and political work through the whole process of education and teaching, realizing the whole education process and all-round education, and strive to create a new situation for the development of higher education in China. To run our colleges and universities well and to run world-class universities, we must firmly grasp the core point of comprehensively improving talent cultivation ability and drive other work of colleges and universities in this way. He pointed out that China's higher education is responsible for the major task of cultivating "moral, intellectual, physical, social and aesthetic development of the builders and successors of the socialist cause, must adhere to the correct political direction. Ideological and political work is fundamentally human work, must focus on students, care for students, service students, and constantly improve students' ideological level, political awareness, moral quality, cultural literacy, so that students become a combination of moral and talent, all-round development of talent.

To use classroom teaching as the main channel, all kinds of courses should go in the same direction with ideological and political theory courses to form a synergistic effect. To strengthen the ideological and political education in colleges and universities, we must start from the essential requirement of "educating people" in higher education and give full play to the role of classroom teaching as the main channel in educating people. We should make efforts to put ideological and political education throughout the whole process of education and teaching, implement teaching and education in the main channel of classroom teaching, deeply explore the ideological and political theory education resources of all kinds of courses, give full play to the function of educating people in all courses and implement the responsibility of educating people in all teachers.

Jia Xiuli believes that teachers can consciously lead students to values and conduct deep cultural discussions. The "trinity" of knowledge transfer, ability cultivation and value shaping is complementary to the concept of teaching English courses in Civics [1]. Yang Yang discusses in detail the importance of the implementation of the comprehensive English course in English, the current teaching situation and the specific teaching implementation strategies [2]. Zeng Ting constructs a whole staff all-round

English major course Civic and Political Education pattern to provide an effective way to implement the fundamental task of establishing moral education in teaching English major courses [3]. Cao Liang developed a guide for teaching English courses in the nautical profession to help instructors accurately grasp the teaching methods of course thinking and government [4]. Li Jie analyzed the great significance of the implementation of curriculum thinking politics in college English and discussed the teaching methods of college English for sports majors under the perspective of curriculum thinking politics, including the methods of comparison, refinement, extension, experience and example [5].

As an emerging teaching concept and method, "immersion" teaching mainly refers to the teaching method that teachers combine with educational purposes, integrate into educational situations, and use activities as a carrier to help students acquire knowledge and gain emotional experience through interactive communication between teachers and students [6]. The purpose of "immersion" teaching is to cultivate and shape college students' communist beliefs and ideals of socialism with Chinese characteristics, and to undertake the cause of socialist construction. The core tenet must be reflected in all aspects of the course, such as syllabus, training program, teaching inside and outside the classroom, classroom assessment and evaluation, etc. Relevant teaching cases, teaching reform and theoretical seminars should also be the support of the core tenet [7]. General Secretary describes the permeability as: daily, concrete, visual and living, and the overall embodiment as "spring breeze and rain, moisten things without sound"[8].

The basic feature of the "immersion" concept is that it is people-oriented, and the later construction of teaching materials, training programs and curriculum should be based on this concept, and adjusted accordingly according to the changing needs of students, emphasizing the participation of students as the main body of teaching, and always putting students in the first place, valuing the improvement of their sense of acquisition and identity, and eventually implementing them to improve their cognitive, practical and creative abilities, so as to lay the foundation for comprehensive and balanced development[9-10].

Professional English is an important professional course, which aims to make students proficient in professional basic vocabulary, master the characteristics of professional English writing, be able to read professional English literature proficiently, master certain translation skills, translate English-Chinese and Chinese-English proficiently, be able to read and translate scientific and technical articles of this specialty more fluently, be able to seek solutions to engineering problems and their alternative solutions through literature research, have certain ability to write scientific and technical papers in English, and broaden students' international vision and foreign language application ability to a certain extent. As an important professional course, professional English should walk in the same direction as Civics in terms of value leadership, guiding students to establish a Marxist worldview, especially to study the latest theoretical achievements of Marxism in China's Socialist Thought with Chinese Characteristics for a New Era, guiding students to establish a correct outlook on life and values, guiding them to establish the core socialist values, inherit and carry forward the excellent traditional culture of the Chinese nation. English for electromechanical majors, mainly mechanical and electromechanical vocabulary, taking into account electronics, automation, intelligent manufacturing and other majors. When the construction of curriculum thinking and politics is mature, it can provide a demonstration role for more new engineering majors with a wider benefit.

2. Research objectives

(1) Improve the syllabus of the course of thinking and politics. In order to adhere to the fundamental task of building morality and casting the soul, strengthen the top-level design of the course Civics in terms of Civics objectives, Civics elements, Civics carriers, Civics forms, Civics assessment, etc., improve the syllabus of the course Civics in combination with professional positions, professional ethics and industry norms, and rationalize the teaching content.

(2) "Immersion" integration of thinking and political elements. The teaching of "Electrical and Mechanical English" is integrated into the whole course of Civic Education, combining explicit education with implicit education, keeping pace with the times, realizing the whole staff, the whole process, all-round education, and cultivating socialist construction talents in the new era.

3. Key Points

The "immersion" teaching requires real feelings. The first is the teacher's true belief in the theory.

He pointed out that "the preacher himself must first understand the way and believe in the way." As a teacher, true faith in the content of the course of Civics is the basic prerequisite to be able to firmly explain and spread. Second, the teacher's genuine faith in the students. Specifically in teaching, it is mainly reflected in the sincere and patient in doing their duty to students, with this sincerity and patience, teaching will be harmonious and harmonious. Third, the teacher's true love for the curriculum. The ultimate expression of teachers' true faith in theory and their sincere love for students in practice is their true love for the curriculum. And from the payment to students and the careful design of the course is reflected, only in this way can the Civics course be built into a course that students truly love, voluntary learning, lifelong benefits.

Digging Chinese stories to strengthen responsibility. There are a lot of Chinese stories in the professional English course thinking and politics, so it is reasonable to dig and refine the course thinking and politics elements, which can not only make the course thinking and politics content and knowledge points achieve the effect, but also enhance the attractiveness of teaching and training students' sense of responsibility. For example, when studying the article "BYD transforms its car production line to make masks across the border", not only do we learn professional English knowledge, but we can also introduce the following thoughts: At the time of the worldwide COVID-19 epidemic outbreak, why has China injected vitality into the world's economic recovery? Both companies like BYD and individuals are actively involved in the fight against the COVID-19 epidemic, while forming a case study of China's story to inspire students to take responsibility.

4. Research content

This project aims to clarify the essence and objectives of course Civics for "Electrical and Mechanical English", deeply integrate professional courses with course Civics, and form a closed-loop mechanism of evaluation and feedback to improve students' knowledge, practical ability, professionalism, and establish correct values.

(1) Value-led study of course teaching objectives

According to the demand of society for mechanical and electrical professionals and the characteristics of students in applied undergraduate institutions, we concisely sort out the intersection of quality objectives and thinking and political objectives into knowledge objectives and ability objectives, and build teaching objectives integrated into the course thinking and political.

Catholicism goal: Professional knowledge is integrated into the element of catholicism, cultivating students to understand things from the height of philosophical thought and to see things from multiple perspectives, stimulating students' patriotic enthusiasm, and enabling them to establish a correct world view, outlook on life and values.

(2) Tapping the Civic and Political elements and infusing them into the course content

1) Optimize the Civic and Political elements of the course "Electromechanical English" and reorganize the teaching resources

Rewrite the content and materials that are naturally integrated with the content related to professional English. Combine the content of Civics with professional knowledge without traces and make natural transition, so as not to dilute the theme of professional lectures. For example, the original content of "Industrial Robotics" is replaced by "The latest scientific research achievements of Chinese Academy of Sciences--space robotic arm technology", which has a high degree of overlap in professional vocabulary and similar professional fields. The excerpt of "Space Robotic Arm Technology", which is the latest scientific research result of Chinese Academy of Sciences, is a natural combination of professional knowledge and political education, which is perfectly integrated into professional English teaching.

2) Integrate the Civic and Political elements of the course "Electrical and Mechanical English" and deepen the teaching resources

In-depth study of socialist core values, to enhance the sense of identity and mission of the course Civics. The moral education elements of the course "Electromechanical English" are deeply explored from different levels, such as he important speech "Carry forward the great Long March spirit and walk the Long March road today", which talks about: transforming the results of study into unshakeable ideals and beliefs, into correct worldview, outlook on life and values. 3) Expand the Civic and Political elements of the course "Electromechanical English" and enrich the teaching resources.

Teachers should also practice appropriate immersion and infiltration for the guidance of ideas outside the classroom. In terms of teaching content, teachers should also continue to integrate the teaching activities related to the first classroom, for example, around the construction of special clubs, recitation, lecture hall activities, sharing the famous lines of Chinese traditional culture. The purpose is to enhance students' love for traditional culture and cultural self-confidence, so that ideological and political education can be infiltrated and charmed at all times and everywhere, so that students can achieve the purpose of "internalization in the heart and externalization in action".

(3) Highlight the ideological and political education and strengthen the construction of teachers' morality

Establish a training mechanism for teachers, strengthen the construction of teachers' morality, and establish a professional teaching team composed of the teaching steering committee, professional teachers, counselors, and instructors of different subjects, with political literacy "hard", theoretical literacy "strong", and moral literacy "high" as the core qualities. High "as the core quality of professional teachers, the moral awareness training into the professional curriculum teaching system, so that each teacher in the actual teaching can not only do knowledge transfer, but also to do value leadership, improve the effect of Civic Education.

(4) Equal emphasis on moral education and intellectual education, and establishment of diversified course assessment

Break through the traditional knowledge points, skills points, change the traditional score theory, the "moral education effect" as an important evaluation index into the evaluation standards of the course education, so that the overall focus of the course Civics placed on the overall development of the students' own political and ideological quality, the establishment of "emphasis on learning attitude, emphasis on the learning process, emphasis on the overall quality" of the diversified assessment model. The course will be evaluated by a diversified assessment model that emphasizes learning attitude, learning process and comprehensive quality. At the same time, using modern teaching methods, teachers can realize the closed-loop management and comprehensive evaluation of students' academic and ideological, online and offline, and feed the evaluation results into the teaching implementation process and teaching objectives, so as to make timely adjustment and improvement of both, forming a virtuous cycle.

(5) Student-centered, optimize the implementation of the integration of thinking and politics

The teaching content is integrated into the Civic and Political elements of the curriculum, and the one-way "injection" teaching method is expanded into a multi-directional and interactive teaching method and means, and a complete teaching link of "exploring before class, guiding during class and improving after class" is formed to improve the students' absorption ability and cognitive level of knowledge. The teaching method is expanded into multi-directional and interactive teaching methods and means, and a complete teaching link of "exploring before class, guiding during class and improving after class" is formed, so as to improve students' ability to absorb knowledge and cognitive degree, optimize the way to realize the integration of Civic and Political Science, and effectively achieve "silent".

5. Implementation Methodology

Determine the content of the course as the core. The ideological elements must come from the teaching content itself. The professional English course is only a compulsory course in the professional education stage, and it needs to go in the same direction as all the professional courses, so as to cover the whole elements of ideological education. Figure 1 shows the three sequential tasks to explore the elements of nurturing in foreign language teaching content: understanding the goals of nurturing - analyzing teaching contents - designing classroom teaching programs. First of all, teachers need to deeply understand the nurturing goals. There are levels of educational goals, which can be roughly divided into four levels. The first level includes the national, school and departmental goals of human education; the second level specifically refers to the general goals of professional education; the third level refers to the goals of professional English courses; and the fourth level refers to the unit teaching goals of courses. In the four levels of goals, the goals of the previous level include the goals of the next level. When teachers design specific classroom teaching objectives, they must conform to the higher-level objectives. On the basis of an all-round understanding of the nurturing goals, they analyze in depth the content they are teaching. Thinking elements are usually embedded in the teaching input

materials or may be implied in the exercise activities. The specific implementation is shown in Figure 1.

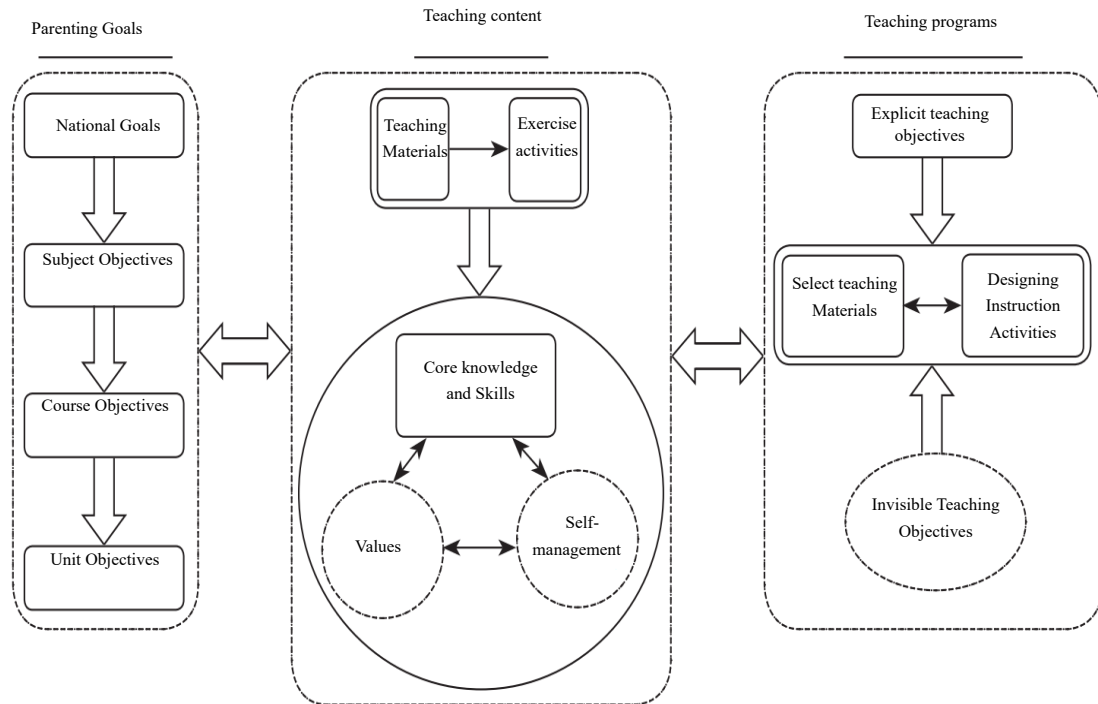


Figure 1: Ideas for tapping into the elements of nurturing

The key strategy of "infiltrative" course thinking is to be "subtle and silent". It is not a "snake adding feet" or additional, labeled hard teaching. Starting from the teaching content, fully explore the elements of nurturing, carefully design the lesson plan, through the subtle, silent strategy, nourish students' personality, cultivate students' sentiment, improve students' taste, and firm students' cultural beliefs. In the process of interacting with students, teachers continue to improve themselves, and through the strategy of teaching by example and strict mercy, students can strengthen self-discipline and consciously follow the teacher as a role model, so as to achieve the effect of "pro-teacher, believe in their way".

6. Conclusion

On the basis of following the laws of education, analyzing the characteristics of students in applied undergraduate institutions and clarifying the training objectives of majors, insisting on the quality of teaching as the basis and taking the curriculum of Civics as the soul, we gradually explore the teaching mode in which majors and Civics go in the same direction, and the main conclusions are as follows.

1) The quality of practical teaching of Civics and Political Science has been improved through the "immersion" education method. Based on the concept of "immersion" which is people-oriented, we abide by the purpose of "immersion" in the whole process of infiltration: implementing the "immersion" teaching with real feelings, cultivating students' craftsmanship and professionalism, and effectively improving the quality of practical teaching of applied undergraduate thinking and politics. The implementation of "immersion" teaching with real feelings has cultivated students' craftsmanship and professionalism and improved the quality of practical teaching of applied undergraduate thinking and politics.

2) The teaching mode of the same direction of major and Civics has been constructed to provide the basis for the reform of Civics teaching. The elements of thinking and politics are interwoven with the contents of professional knowledge and complement each other, so that the teaching of professional courses can fully reflect the characteristics of education, such as "political identity, national sentiment, craftsmanship and professionalism", and play an eye-catching role. In this way, "teaching" and "educating people" complement each other.

3) It expands the new path of education of thinking and politics, which is "new" and more

"heartfelt", and provides new strategies for the construction of education of people in colleges and universities. The innovative course thinking and government carrier, relying on the "academic tutor" mechanism of our university, creates a new path of joint efforts of school, college and college to educate people, strengthens the cultivation of the soul, enhances the effectiveness of education, realizes the three whole education, and adds new strategies for the construction of education in colleges and universities.

Acknowledgements

1) This paper was supported by Project of Shanxi Provincial Education Science "14th Five-Year Plan" 2022 (GH-220857)2) Teaching Reform and Innovation Project of Shanxi Higher Education Institution (J2021930);

References

- [1] Jia Xiuli. *Exploring the practice of teaching Civics in the comprehensive course of professional English under the concept of "Trinity" education*[J]. *Contemporary Foreign Language Education*, 2022(00): 57-62.
- [2] Yang Yang, Xu Xiaoliang. *Exploration on the mode of teaching Civics in the comprehensive English course of English majors*[J]. *Talent*, 2023(05):41-44.
- [3] Zeng Ting. *Research on the teaching mode of English major's comprehensive English course* [J]. *Teachers*, 2023(03):39-41.
- [4] Cao Liang, Li Ronghui, Yin Jianchuan, Li Donglou, Huang Yilong, Ma Long, Huang Zhenkai. *Study on the integration of curriculum construction and Civics in English course group of maritime profession* [J]. *Zhujiang Water Transport*, 2022(24):24-27.
- [5] Li Jie. *The teaching method of English for sports majors under the perspective of curriculum thinking and politics: the example of Hope English textbook*[J]. *Western quality education*, 2022, 8(24): 54-57.
- [6] An Xiumei. *Research on the function of "course thinking and politics" in University English* [J]. *Comparative study of cultural innovation*, 2018, 2(11):84-85.
- [7] Zheng Xuejing, Xu Shengang, Zheng Xiaoli, Wang Wanjie, Zhang Chenxi, Guo Wenrong, Chen Zhimin. *Exploration and Practice of Curriculum Civics in English for Polymer Materials*[J]. *Polymer Bulletin*, 2020(08): 80-85.
- [8] Xu Jinfen. *Research on the construction of thought politics content of teaching materials in English courses in colleges and universities*[J]. *Foreign Language*, 2021(02):18-24.
- [9] Gu Shengli, Liang Chunling, Yang Guiling, Ding Jinping. *A study on the paradigm of teaching English for new engineering construction majors based on disciplinary integration*[J]. *Overseas English*, 2021(19):72-73.
- [10] Huang Guowen, Xiao Qiong. *Six elements of the construction of foreign language curriculum thinking and politics* [J]. *China Foreign Language*, 2021, 18(02):1+10-16.