Research and Practice of Ideological and Political Teaching in “Mobile Communication” Course

Jie Dong\(^a\)*, Fengying Wang\(^b\)

Shenyang Jianzhu University, Shenyang, China
\(^a\) xxdongjie@sjzu.edu.cn, \(^b\) wfy@sjzu.edu.cn
*corresponding author

Abstract: Curriculum ideological and political education is an important task to improve the quality of talent training. Firmly establish the educational concept of “student development as the center”, focus on the construction goal of morality education, design reasonable teaching plan by excavating and expanding the ideological and political education resources contained in the course of “mobile communication”. The research and practice of this subject will promote the comprehensive education of communication engineering. In order to provide reform ideas and practical experience for ideological and political teaching of engineering courses in colleges and universities.

Keywords: Ideological and political education, Morality education, Mobile communication

1. Introduction

At present, the ideological and political education of colleges and universities is to carry out the fundamental task of creating people by virtue, dig deeply into the elements of ideological and political education and the function of moral education contained in various courses and teaching methods, and integrate ideological and political education into the research, practice and exploration of all aspects of curriculum teaching.

Mobile communication technology is more and more integrated into people's daily life, mobile phone has become the basic demand of life, and China's mobile communication industry from the era of 1G/2G looking on, to the 3G/4G of studying and competition, to 5G occupy a leading position, Professional knowledge itself has obvious value tendency, family feelings.

By organically integrating the ideas and concepts that conform to the socialist core values into the teaching process, students can build up national self-confidence, strengthen their ideals and beliefs, cultivate patriotic feelings and national pride, encourage students to consciously integrate their personal ideals into the cause of the country and the nation, strengthen the "four self-confidence “, establish the correct” three views "and have a sound personality; understand the basic qualities that scientists should possess, and cultivate engineering literacy, professional ethics, craftsman spirit and social responsibility. With innovative consciousness and academic integrity, forming a good scientific literacy, the author has done a lot of research and attempt.

2. Ideological and Political Education into the Curriculum Teaching Objectives

The teachers of science and engineering also need to explore the relevant points and bright spots between professional courses and ideological and political courses through discipline construction and reform. Strive to maximize the function of the main channel in the classroom, and promote the improvement of teachers' teaching level.

Mobile communication course is a professional course for undergraduates major in communication engineering. Therefore, on the basis of the original syllabus, we should dig deeply into the ideological value and spiritual connotation contained in the system of professional knowledge, scientifically and reasonably expand the breadth, depth and temperature of professional courses, and increase the knowledge, humanism, leading, epoch and openness of the courses from the angles of specialty, industry, country, international, culture and history.

We should pay attention to the combination of learning and thinking, the unity of knowledge and
practice, and enhance students' innovative spirit of courage to explore, and their practical ability to solve problems. Integrating political identity, family and country feelings, cultural accomplishment, constitutional consciousness of rule of law, moral cultivation, engineering ethics and so on into the course teaching, focusing on cultivating the great country craftsman spirit of students' excellence, arousing students' feelings and mission of serving the country with science and technology.

3. Thoughts of Ideological and Political Construction in Curriculum

3.1. Based on the Concept of OBE, Integrating Ideological and Political Elements, Reconstructing Teaching Design

Aiming at the problems existing in the teaching of communication engineering specialty, this paper introduces the concept OBE achievement-oriented education, starts with the teaching goal of mobile communication course, carries out teaching reform around teaching content, teaching method and evaluation, excavates the values of knowledge connotation, and carries on the value module integration, the breadth extension, the depth interpretation. From single point to multi-point, finally form line and surface, and integrate with professional theory and knowledge, effectively promote students' understanding, mastery, expansion and deepening of curriculum knowledge, and improve students' professional quality and moral education quality.

3.2. Select Current Events as Appropriate

Mobile communication devices such as smart phones have been popularized, and the research on mobile communication technologies, especially at present, has received wide attention worldwide. The research on the demand vision and the overall structure of the 5G has made important progress. China's 5G have entered the market.

All kinds of current affairs news often can be seen, the company competition, the change of international relations is often thought-provoking, so we can combine the course content to guide, stimulate national self-confidence, stimulate youth blood, and strive to learn for the rejuvenation of the country.

3.3. Expand the Content of Professional Courses

Explore the philosophical ideas and elements contained in the teaching content, such as epistemology, methodology, dialectics of nature ideas and methods, the way of thinking inspiration and establishment. Taking the targeted problem as the clue, this paper puts forward the hot problems and difficulties of the current mobile communication technology, finds out the solution, and excavates the presented values and thinking mode. The standards of mobile communication technology include institutional awe and objective, rigorous and meticulous scientific training, teamwork, discovery and questioning, exploration and innovative thinking.

3.4. Diversified teaching methods

Adopt diversified teaching methods, expand teaching time and space, and implement the combination of inside and outside the classroom, inside and outside the school, online and offline. Emphasis on students' practicality and initiative, focusing on students' emotional experience and behavior training. Improve students' interest and expectation, and silently integrate ideological and political education into the teaching of professional courses.

4. Ideological and Political Elements in Mobile Communications Teaching Content

Based on the teaching content of professional knowledge, this paper excavates the effective elements of ideological and political education, and makes full preparation for classroom teaching. In the whole teaching process of "curriculum ideological and political ", it is the basis of" curriculum ideological and political "teaching to build the ideological and political resources contained in the professional content well.

The "ideological and political elements" in the course of mobile communication should be fully excavated to ensure that the classroom teaching content can be vivid and vivid. Special attention should
be paid to excavating the scientific spirit from the systematic principles of professional knowledge, to seeing enterprising spirit from the stories of scientists, to finding the point of agreement with traditional culture from the essence of professional knowledge, to arousing patriotism from our country's contribution and deficiency in professional field.

The course of mobile communication mainly includes mobile communication channel, networking technology, anti-fading technology, multi-access technology, GSM system, 3G mobile communication system, etc.

**Table 1: Examples of ideological and political content**

<table>
<thead>
<tr>
<th>Key points of teaching content</th>
<th>Ideological mapping Integration points</th>
<th>Teaching forms and methods</th>
<th>Expected accomplishments</th>
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</thead>
<tbody>
<tr>
<td>Mobile Communications Applications</td>
<td>The application has changed the way of life of the masses and made the life of the people more comfortable and efficient. The speed and scope of these applications are world-leading</td>
<td>Case teaching Multimedia</td>
<td>Build up national self-confidence, cultivate patriotic feelings and national pride</td>
</tr>
<tr>
<td>Multi-path propagation model</td>
<td>The thought of methodology, when the influence factors are more, first draw out the main factors, get the corresponding results, then consider the role of other factors, from simple to complex</td>
<td>Class Discussion</td>
<td>Develop students' ability to understand, analyze and solve problems scientifically.</td>
</tr>
<tr>
<td>Prediction Model of Transmission Loss in Mobile Channel</td>
<td>The environment of mobile communication is complex and changeable, in which the model parameters are complex and irregular</td>
<td>Class Discussion Experience Exploration</td>
<td>Guide students to attack complex problems, study, persevere attitude, develop the pursuit of extreme, excellence craftsman spirit</td>
</tr>
<tr>
<td>Shannon's coding limit theorem</td>
<td>Forty years to get close to the Shannon limit of performance, scientific development is not achieved overnight, the direction of courage, will certainly achieve success on the other side</td>
<td>Science stories</td>
<td>Cultivate engineering literacy, professional ethics, craftsman spirit and social responsibility. Have innovative consciousness and academic integrity, form good scientific accomplishment.</td>
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<td>Multi-channel sharing</td>
<td>Multi-channel sharing has more system capacity than single-occupancy, user harmony and love, common development</td>
<td>Analogy</td>
<td>Set up the right thoughs, Carry forward Chinese traditional culture and develop students' ability to understand, analyze and solve problems scientifically</td>
</tr>
<tr>
<td>technical specifications</td>
<td>The mobile communication system is huge, the responsibility of each part is clear, must follow the unified standard to run cooperatively under the unified clock frequency</td>
<td>Thematic embedding</td>
<td>Develop a sense of teamwork, professional norms, engineering literacy education</td>
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</table>

5. Conclusions

Ideological and political education in colleges and universities should run through the whole process of student training. We should combine the cultivation of qualified talents with the strengthening of patriotic responsibility, the shoulders of national missions and the exploration of scientific frontiers, and the development of scientific research and innovation with the face of the national economy. Every teacher should adopt diversified teaching methods, expanding teaching time and space, silently integrating ideological and political education into the teaching of professional
courses, so as to truly teach and educate people and build virtue.

Acknowledgements

This work was financially supported by Project of Ideological and Political Education Science in Shenyang Jianzhu University 2020(kcsz202015), Building Control and Energy-saving Optimization National Experimental Teaching Demonstration Center Open Project Fund (BCES2019KF09), Education, Teaching and Research Project of China Association of Construction Education (2019148).

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