

Analysis of the Integration of Ideological and Political Elements into the Teaching of Financial Engineering

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Abstract: In recent years, the post-00s generation has become the major of college students majoring in Finance. "Post-00" college students majoring in Finance lack sufficient discrimination against various new trends of thought. At the same time, financial engineering has been listed as a core professional course for undergraduate students majoring in finance. They need teachers' active guidance in the teaching of finance engineering. Therefore, we studied the importance of integrating ideological and political elements into teaching of Finance engineering. Then, we put forward corresponding suggestions. College teachers should actively explain the close relationship between financial engineering and the great rejuvenation of the Chinese nation to students in combination with national conditions. College teachers should also emphasize the risks in the application of financial engineering technology to students in combination with reality. At the same time, teachers should arrange extra-curricular exercises for students to learn independently. This will help improve students' comprehensive quality.

1. Introduction

Higher education in China shoulders the crucial task of cultivating talents of high quality of our country construction and with all-round development of morality, intelligence, physique and beauty, and must adhere to the correct political direction. We should adhere to the central link of building morality and cultivating people, run ideological and political work through the whole process of education and teaching, realize the whole process and all-round education, and strive to create a new situation for the development of China's higher education. "Financial engineering" is a new discipline rising from the United States in the late 1980s. It introduces engineering ideas into the financial field, comprehensively adopts various engineering technical methods (mathematical models, numerical calculations, simulation methods, etc.) to calculate, develop and implement new financial tools, and then creatively solve problems. At present, financial engineering has been listed as a compulsory core professional course for undergraduate students majoring in finance in Colleges and universities by the Ministry of Education. It is of theoretical and practical significance to explore how to integrate ideological and political elements into the teaching of financial engineering. Therefore, in this paper, we first analyze the importance of the course of financial engineering in the training process of students majoring in finance, and then explore how to integrate ideological and political elements into the teaching process of financial engineering.

At present, some scholars have studied the significance of combining professional teaching with ideological and political teaching. Sha Jingrong analyzed the impact of the combination of Ideological and political teaching and professional teaching on students, and believed that the combination of the two can clarify students' learning motivation and cultivate students' high-level thinking [1]. Chen Qian believes that the ideological and political construction of College English courses is conducive to the comprehensive development of students' Moral Cultivation and cultural accomplishment [2]. Xie Guomin and Tian Guosheng believe that the ideological and political construction of the engineering experimental course helps to enhance the innovative spirit of the students who are brave to explore [3]. Di Yanfen and Yang Min believe that the ideological and political construction of transportation courses can help cultivate students' craftsmanship spirit and cultural confidence [4]. Yang Xuelai believes that the ideological and political teaching of finance can stimulate students' enthusiasm for learning and enhance the emotional connection between students and teachers [5].

Some scholars also analyzed how to integrate ideological and political elements into professional teaching. Wang Wei believes that Chinese stories can be added around the key teaching contents and Chinese social practice, and attention should be paid to the construction of online and offline teaching platforms [6]. Xu Zhihe and Xie Wenbo believe that to strengthen the ideological and political construction of professional courses, we need to pay attention to the construction of professional teaching teams [7]. Zhou Chunjie believes that the ideological and political teaching of the practical course of automation under the new engineering background needs to mold the value of students [8]. Yan Weichen believes that the integration of Ideological and political elements into the teaching of professional courses in Colleges and universities in the new era needs to enhance the sense of the times in the teaching content [9]. Yang Tao believes that the ideological and political teaching of Finance and economics majors needs to combine the ideological and political social investigation with the professional social investigation [10].

To sum up, the existing literature has carried out research on the ideological and political teaching of professional courses, but there is a lack of research on integrating the ideological and political elements into the teaching of financial engineering. Therefore, we will focus on how to integrate ideological and political elements into the teaching of financial engineering according to the teaching characteristics of financial engineering.

2. The Importance of Integrating Ideological and Political Elements into the Teaching of Financial Engineering

First of all, over the past few years, the Chinese government has successively presided over the National Conference on Ideological and Political Work in Colleges and universities, the National Education Conference, the Symposium of Teachers of Ideological and Political Theory Courses in Colleges and Universities. The Chinese government has also made a series of important instructions and emphasized the need to strengthen ideological and political education in Colleges and universities. These important speeches have pointed out the direction of progress and provided fundamental guidance for promoting ideological and political construction in Colleges and universities. In 2020, the Ministry of Education in China issued the guiding outline for the ideological and political construction of college courses. Comprehensively promoting the ideological and political construction of college courses is a strategic measure to implement the fundamental task of building morality and cultivating people. In the "Trinity" talent training objectives of value building, knowledge transfer and ability training in colleges and universities. Value building is the first priority. To comprehensively promote the ideological and political construction of the curriculum is to guide the values outlook in the teaching of knowledge and

ability training, and help students shape the correct world outlook, life outlook and values outlook. This measure affects and even determines the problem of successors, the long-term stability of the country, the national rejuvenation and the rise of the country. Therefore, the integration of ideological and political elements into the teaching of financial engineering is very important for the cultivation of more high-quality talents with professional knowledge who put the interests of the people and the country first.

Secondly, the contemporary college students have entered the era of "Post-00" as the main body. They have high comprehensive quality and strong ability to accept new things, but they lack sufficient discrimination to various western thoughts. "Post-00" college students were born after 2000. In 2000, China joined the World Trade Organization and entered a new stage of reform and opening up. Our economic and cultural exchanges with the world have been significantly strengthened. A variety of scientific and technological products and cultural products from Europe, America, Japan and South Korea have poured into the domestic market. The material and cultural lives of the people have been greatly improved. At the same time, they have also deeply affected the "Post-00" college students. "Post-00" college students have been exposed to various European, American, Japanese and Korean films, online dramas, online videos and graphics since childhood. They are vulnerable to the impact of individualism and hedonism in the western world, so they pay attention to personal enjoyment and ignore the spirit of teamwork and collectivism. Once the "Post-00" college students majoring in finance enter the society, a large number of them will engage in the work in the financial field and manage the financial assets of the public. If they put their personal interests in the first place, they are prone to act against the public interests. For example, financial practitioners manipulate the market, implement insider trading and release false information. These acts are illegal acts that endanger the public interest. Therefore, the integration of ideological and political elements into the teaching of financial engineering will help strengthen the ideals and beliefs of the "Post-00" finance majors, so that they can focus on loving the people and mother country, and closely link their personal destiny with the development of the motherland.

Finally, financial engineering is mainly offered to undergraduate students majoring in finance. The main training goal of finance major is to enable students to systematically master the basic theories, basic knowledge and basic skills of finance, have the basic quality and ability to carry out actual financial business operations, prevent financial risks and resolve financial risks. The main training goal of finance major is also to pay attention to strengthening foreign language and computer teaching, so as to become students with profound financial theory knowledge, strong practical ability, comprehensive analysis ability, organizational ability compound financial talents with expression ability and innovation ability. The financial industry plays a central role in the optimal allocation of resources in China's economic development and plays a decisive role. The financial industry requires its employees to love the motherland, love the people, and abide by laws and regulations. If the course of "financial engineering" only pays attention to the explanation and training of knowledge, it is obviously unable to meet the social requirements for the comprehensive quality, moral quality and legal awareness of college students majoring in finance. Therefore, it is very important to integrate ideological and political elements into the teaching of financial engineering from the perspective of the training objectives of finance and the social requirements for financial professionals.

3. Exploration of Integrating Ideological and Political Elements into the Teaching of Financial Engineering

First of all, teachers should actively explain the close relationship between financial engineering and the great rejuvenation of the Chinese nation to students in combination with national conditions.

Realizing the great rejuvenation of the Chinese nation is the common great dream of the people of the whole country. The Chinese nation will be obstructed and destroyed by the external forces in the process of great rejuvenation. The three pillars for the United States to dominate the world are the dollar, science and technology, and the U.S. military. Breaking through the bondage of the dollar is the key to whether China can rise in the future. In this process, currency swap in financial engineering can play a very important role. At present, China has become the world's largest manufacturing country, the world's largest trading country and the world's second largest economic country. However, according to the latest data released by the global Interbank Financial Telecommunication Association (Swift), in March 2022, the share of RMB in international payments was still very low, only 2.3%, far lower than the dollar (41.07%), the euro (35.36%) and the pound (6.4%). The proportion of global payments in RMB is obviously inconsistent with China's global economic status.

China's promotion of currency exchange of RMB and foreign currency with other countries in the world will help to expand the application of RMB in international trade, investment and reserves, so as to realize the internationalization of RMB, break the bondage of the US dollar, and help the great rejuvenation of the Chinese nation. The actual use of RMB currency swap facilitates RMB settlement and investment in cross-border trade, provides a large number of RMB capital sources for cross-border trade and investment, solves the difficulties of international trade and investment caused by the shortage of RMB capital, avoids the use of third-party currencies in international trade and investment, avoids the risk of exchange rate fluctuations and reduces exchange costs. Actively promoting the actual use of RMB in currency swap target countries (regions), as a payment medium for bilateral trade and investment, can effectively promote the development of cross-border business and promote the internationalization of RMB. As of July 31, 2022, China has signed currency swap agreements with 39 countries and regions around the world. According to the number of countries (regions), the RMB is the world's largest swap currency, with a scale of 3.77 trillion yuan.

Secondly, teachers should emphasize the risks in the application of financial engineering technology to students in combination with reality, and make students deeply aware that financial practitioners should have a good sense of risk and the concept of home and country in order to protect the financial assets of the people and the country.

The core of financial engineering is risk management. Investors can manage all kinds of spot risks by using financial derivatives. However, financial derivatives also have high leverage and high risk. If investors only see the high yield of financial derivatives, ignore the high risk of financial derivatives, and improper use of financial derivatives, these acts will bring losses to enterprises and countries.

For example, when introducing the risks of futures, teachers can take the "crude oil treasure" of the Bank of China as an example. "Crude oil treasure" is a "crude oil treasure" product launched by the Bank of China in January 2018 to provide domestic individual customers with trading services linked to overseas crude oil futures. Among them, American crude oil varieties are linked to the first line of Texas light crude oil (WTI) futures contract of the Chicago Mercantile Exchange (CME). In 2020, the COVID-19 spread all over the world. Blockade measures appeared everywhere. Economic development fell. Crude oil demand decreased. Oil producing countries did not reduce but increased the price war, and the oil storage capacity of Cushing in the United States was in a hurry. After the crude oil price fell sharply since March, a large number of investors in China have poured into bottom hunting and bought bank financial products including crude oil treasure. On April 15, CME clearing house revised the trading rules. The new rules adapt to the new contract and apply to the stock contract. The trading settlement mechanism of Bank of China crude oil treasure exposed loopholes under the new rules. Bank of China stopped trading after 10 p.m., but the

settlement price should also refer to the 3-minute average price from 2:27 to 2:30 a.m., and it is impossible for negative customers to take the initiative to close their positions. In the context of the new regulations, which reminded other banks of the possible negative value, other banks moved their positions successively on April 15, and the Bank of China did not move. The crude oil price plummeted to -40 dollars at the last time of delivery because there was no counterparty. As the warehouse inventory of physical delivery was full, physical delivery could not be achieved. Bank of China could only choose cash delivery, resulting in a huge loss of 30 billion yuan. The long investors of crude oil treasure are all out of position and need to pay money back to the Bank of China. With the continuous fermentation of the crude oil treasure incident, under the pressure of the CBRC, the Bank of China finally gave an agreement, saying that the loss of negative oil prices should be borne by the Bank of China, and the money deducted from the excess margin after the event should be returned, and 20% of the principal should be returned.

As a large state-owned bank, Bank of China has obvious defects in risk control when designing "crude oil treasure" products. The CME clearing house of the United States revised the trading rules, and the Bank of China lacked full understanding of the significant increase in the risk of crude oil futures, and did not allow investors to force liquidation, which brought huge losses to enterprises, people and the country. Through this practical case, teachers make students aware of the dual characteristics of profitability and risk of financial derivatives, and cultivate students' risk awareness and collective spirit. Only when students go to work, they can better contribute their talents to the people and the country.

Thirdly, when teachers arrange extracurricular exercises, in addition to the training of basic knowledge, they also need to let students learn independently and enhance their patriotic and legal awareness.

When introducing various financial derivatives, teachers can actively guide students to find relevant cases to deepen their understanding of the financial derivatives market. For example, when the teacher explains the long-term, he can take the cotton forward contract as an example and let the students find the information of cotton in Xinjiang. Through the Internet, students can find that because Europe and the United States want to destroy the good situation of Xinjiang's stable development, they deliberately accuse Xinjiang of forced labor in the cotton production process, and sanction the export of Xinjiang cotton and textiles containing Xinjiang cotton, which greatly reduces the foreign demand for Xinjiang cotton. Cotton prices in Xinjiang fell, and cotton farmers and cotton processing enterprises were in trouble. According to the requirements of the relevant state departments and the arrangement of China Grain Reserve Management Group Co., Ltd., in order to promote the smooth operation of the cotton market, China Cotton Reserve Management Co., Ltd. will organize the first batch of central reserve cotton to be transferred in 2022. The national team carried out protective price purchase of cotton in Xinjiang to minimize the losses of cotton farmers and related enterprises. Therefore, the trading of financial derivatives not only depends on the supply and demand relationship of the market, but also on the state's concern for the people. Financial workers should also be aware of this.

Teachers should also guide students to actively think about illegal cases of financial derivatives trading, and enhance students' awareness of abiding by laws and regulations. For example, the illegal securities and futures risk warning column on the official website of the China Securities Regulatory Commission announced that recently, a financial V Xu with 4 million Weibo fans in Shanghai was prosecuted by the Shanghai Pudong new area procuratorate for the crime of illegal operation, the crime of helping network information criminal activities, and the crime of false advertising because he was suspected of publishing false investment platform advertising information in the microblog and live broadcast room and tricking investors to trade 50ETF options on the black platform. Obviously, Xu lured the public to trade options on illegal platforms for

personal interests, causing huge economic losses to the people, disrupting the trading order of the country's financial market, and eventually only going to jail.

4. Conclusions

To sum up, it is of great significance for higher education to integrate ideological and political elements into the teaching of financial engineering. Therefore, teachers need to combine classroom explanations and extracurricular exercises according to national conditions to improve students' ideological quality and moral cultivation.

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