

Short Paper

Comparison and Fusion Research of Graduate Training between China and France in the Double First-Rate Background

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Abstract

Research on graduate training between China and France are made in the paper. Aiming at the problems in training goal, speciality characteristics and teaching method, measurements which can be taken are presented associating with Chinese situation and French education. It is verified that the methods are practical and feasible.

Keywords

comparison, fusion, education, training, graduate

1. Introduction

In 2017 September, double first-rate construction started. Talent training is the central task and work in universities, the goal of double first-rate construction is to train first class talents. In this significant background, how to crack the defect and insufficiency from graduate training, explore and seek new way and new mode is becoming an important task for first class training.

Now in some extent the environment for graduate training is not good enough, the system is not mature, and teaching staff is needed to improve, and the training quality is needed to be enhanced. During the course of double first-rate construction, graduate training should be reformed, and connotative development should be promoted.

2. Existing Problems

It is found that from investigation main problems in graduate training lie in the following aspects:

(1) Training goal is not specific, and assimilation is severe

Graduate are the important talent source for economic development, and the graduate training should be consistent with the economic, scientific and technology, and society. However, social factors should be considered enough. The dynamic feature and developing feature should be adjusted correspondingly.

(2) The speciality characteristics is not distinct

From the training plan, it can be seen that the plan is not specific, and the discipline is not distinct, the training direction is not obvious, and some courses are too old. It is reflected in three aspects: 1) Frontier knowledge has not been given and the interdisciplinary is easy to be ignored. 2) Practice course is scarce, and practice ability is not enough. Connection between theory and practice is not strong and valid. 3) Innovation ability of graduates is not strong, and training method is too single. Cooperation between universities and enterprise is scarce, technical ability is weak.

(3) Teaching method is not novel enough, and the learning interest of students is not high

Teaching is a way to master theory knowledge. Teaching method is traditional, and it is not easy to motivate the learning interest of students. However, once the motivation of students are encouraged, they will make better progress.

3. Graduate Education in France

Higher education can be traced back to Century 12th. After many times reform, its higher education become famous in the world, and France is one of the most advanced countries. After World War II, to recover higher education destroyed by the war, the government began to develop graduate education and train practical talents needed by the society. Now higher education, engineering education and high technology education have been formed. And their education method is famous in the world. Practical problems are brought into the classroom by practical course or project developing, and students are arranged into enterprise to technical training. Good ability training platform is built by open practice teaching environment and practice in enterprise.

Now to train talents in the international environment, our graduate education must be internationalized. We must join in the main stream of international graduate education and develop ourselves from completion.

4. Methods Which Will Be Adopted

Combined with the background of double first-rate background, the similarity and difference are compared, training mode are investigated and probed. CDIO, PBL will be introduced into the graduate training, practice ability, engineering ability and innovation ability will be trained all together.

(1) Curriculum system of double first-rate background should be constructed, and course should be optimized. In France, some courses are laid down by enterprises and school together. Furthermore,

teaching contents may be adjusted by the need of enterprise. Therefore, our curriculum system may be laid down like France, and the courses can be associated with society need. On the other hand, superior courses can be shared by internet, and frontier knowledge and interaction learning between different universities may develop.

(2) Education construction of graduate should be optimized, and training of comprehensive quality should be enhanced. Theory knowledge quality, science research quality and practice quality should be improved on the base of training quality model. Thus it is helpful for them to be adaptive to future work after graduation quickly.

(3) Industry-university-research development should be boosted, and cooperation between school and enterprise should be promoted.

Cooperation between school and enterprise is very obvious in French higher education, and it is also an important reflection of Collaborative development for higher engineering education. During the course of cooperation with enterprise, plenty of information about the related industry can be obtained, and this is very helpful to speciality setting, target location. Students' ability in team cooperation, coordinate, communication and solving practical problems may be trained a lot.

(4) School characteristics are combined with industry characteristics together, and speciality characteristics should be optimized to be adaptive to the diversified development of students. On the basis of talent training mode and the need from industry, comprehensive specialized talents should be enhanced. Students may go to work in mining enterprise and also other industry after graduation.

5. Conclusion

France is the earliest and western country which built relation with China. During recent 40 years, communication and cooperation between France and China is old and long, and develop continuously. Graduate education play an important role in higher education. Therefore, the investigation and research on the construction of graduate and training mode is very important. On the basis of comparison and analysis, and at the same time we persist in our Chinese characteristics graduate training. The training mode of graduate education may be enhanced and improved, and this is meaningful and helpful for development.

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