

Research on "Research-feeding Teaching" in Cost Management of the Whole Process

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Abstract

How to introduce engineering problems and life-related problems into learning? The integration of science and education, the use of scientific research to feed back teaching is an effective way. As early as in 2012, "Several Opinions on Comprehensively Improving the Quality of Higher Education" issued by the Ministry of Education has pointed out in the innovative talent training model that it is necessary to promote the interaction between scientific research and teaching, and timely convert scientific research results into teaching content; Participate in scientific research activities, key laboratories, research bases, etc. are open to students, so that students can enter the subject early, enter the laboratory early, and enter the team early.

Keywords

Scientific research, teaching, research, teaching.

1. INTRODUCTION

In this new era of rapid development and multiple needs, how can universities cultivate senior talents who adapt to and even lead the development of society? As a university teacher who bears the main responsibility of talent cultivation, how to transform the "contradiction" between teaching and scientific research, talent cultivation and self-development into a mutually motivating development momentum? This article combines the exploration and practice of the cost discipline major in recent years, intends to conduct research on the research-feedback teaching, and looks forward to interacting with colleagues.

2. RESEARCH STATUS

The construction project is divided into several stages such as decision-making stage, design stage, bidding stage, construction stage and completion acceptance stage, each stage involves different units, and these different units are responsible for different links and different professional jobs. But it is inevitable that no matter what stage it is in, it will ultimately involve capital issues, or cost. Most of the time, the cost consulting companies only started to participate in the project in the second half of the project. Even if the stages were divided, the participating companies would be different. For example, the bidding control price of the construction drawing budget is prepared by a cost consulting company, and the construction settlement work is taken over by another company. In this way, in the process of building the entire construction project, involving too many units means that the time is extended and the cost is increased. Moreover, the internal connections at each stage are divided, the information flow is cut off, and the entire industry chain is lacking. Overall control, it is easy to bring management problems and subsequent hidden safety quality risks. This model has long been derailed from the international mainstream construction management model, which is also the reason for the long-standing dilemma of small, scattered, chaotic and poor enterprises in the construction industry service market.

The implementation of full-process engineering consultation means that the investor or construction unit will prepare the project proposal, feasibility study report, overall project implementation planning, approval and construction management, contract management, survey management, planning and design optimization according to the characteristics of the project and its own needs. , Engineering supervision, bidding agency, cost control, acceptance and handover, cooperation with audit, etc., all or part of the business is entrusted to a full project consulting enterprise, and the full project consulting enterprise can be authorized by the investor or construction unit in the corresponding project documents Sign the seal on behalf of the owner. The highly integrated service content of this model not only shortens the construction period, saves investment costs, but also improves the service quality and project quality, and can effectively avoid risks. Full-process engineering consulting will be the real development direction of consulting companies in the future. This is not only a reasonable result of policy guidance, but also an inevitable manifestation of industry progress, but also an adaptation trend in line with the international construction management service model.

At present, according to the "Implementation Opinions on Accelerating the Reform and Development of the Construction Industry", the Wenzhou Municipal Housing and Urban-Rural Construction Bureau carried out the implementation of full-process engineering consulting pilot work in 2018, and actively guided construction units to take full-process engineering consulting as a priority. Project construction organization management method. Adhere to the pilot first, model guidance, give full play to the market's decisive role in resource allocation, deepen the reform of engineering construction organization management model, speed up the supply-side structural reform of engineering consulting service companies, and actively explore the entire process of construction engineering consulting services, innovation and improvement The engineering project management system improves the engineering construction management level and overall benefits, and lays a solid foundation for the full implementation of engineering consulting throughout the construction process. Zhejiang Jinsui Engineering Project Management Co., Ltd. was also identified as the first batch of full-process engineering consulting pilot enterprises by the Wenzhou Housing and Urban-rural Construction Bureau. It participated in and successfully declared the full-process engineering consulting pilot project. The contract content was to provide full-process cost consulting and engineering supervision services. .

From the strong support of the government to the active declaration of enterprises, it can be seen that the development of cost management in the whole process is the general trend. This also means that the talent training output of colleges and universities also needs to have a certain level of relevant knowledge. With the mutual cooperation of teachers and enterprises, "research and development counterattack teaching" is carried out, so that the scientific research side that has been preferentially developed conducts relatively slow development of teaching activities. Effective help to achieve mutual promotion and common development of both scientific research and teaching.

3. SIGNIFICANCE

Scientific research is conducive to updating the teaching content, improving teaching methods, and improving the teaching level and quality of education; teaching is the prerequisite and basic condition of scientific research. Teaching helps teachers systematically scientific knowledge and can be their own scientific research activities. Organize ideas. The so-called "teaching without research is shallow, research without teaching is empty", only when teachers can insist on carrying out scientific research, will they be more familiar with the dynamics and frontiers of the research field, and can they teach the professional basic knowledge to their own. Combining research directions, through the creation of their own personal experience, let the

knowledge live, make the teaching full of vitality, so that while students master the basic knowledge of the profession, they also have an understanding of the latest scientific and technological progress of the major, thereby improving the science of students. The quality also greatly improves the teaching quality of professional courses.

The same is true for the "research and development feedback teaching" of the whole process cost management. Looking back on the teaching work of previous years, although the concept of engineering cost management involves the whole process cost consulting every year, it is often just a matter of talking on the paper, not a "full process cost consulting" in the true sense. To truly enable students to have a deep understanding of "the whole process", they must combine actual cases with theoretical knowledge. Cost is not a simple budget, it is to ensure management and safety while ensuring safety and quality, that is, to save costs as reasonably as possible.

4. TARGETS

At present, most teachers still have the phenomenon of "emphasizing scientific research and ignoring teaching", which will seriously affect education and greatly reduce the quality of teaching. In order to reverse this phenomenon, our school proposes to feed back teaching with scientific research, encourage teachers to carry out scientific research work, and hope that more teachers will participate in the research of this new teaching model, so that teaching is based on scientific research, and let scientific research revolve around teaching. Start the development of teaching and scientific research go hand in hand.

For the whole process cost management, it involves multiple courses of cost majors, especially "Engineering Cost Management". From the early stage of the project decision-making stage to the design, implementation and final completion acceptance, they are all construction engineering full-process projects. The composition of management. Although we have more practical courses in our majors, we still stay at the stage of a certain project construction. At this time, we need a greater technical force to effectively connect the cost knowledge of the whole process in a systematic way to achieve a systematic Show true cost management throughout the process. This is the research goal of this project. Through the personal work experience of the teachers who have served the front line of the enterprise, the school-enterprise cooperation with the enterprise to help each other is carried out. With the joint efforts of the teaching teachers, we continue to input new cases for teaching. , New methods and new models to improve students' innovative thinking and practical ability, so that students can be more socially competitive on graduation, and truly achieve scientific research to provide a platform for academic thinking exercise for talent training, and teaching to cultivate talent for scientific research. In order to enhance the independence and understanding of talent growth, and ultimately achieve the purpose of feeding back teaching.

5. PROBLEMS AND DISCUSSION

5.1. Actual Case Is Too Large

Real cases are often complicated in process, and it is difficult to present them completely in class at once. This requires appropriate compression and adaptation of the case, or dividing it into several small cases, which is reflected in the stage teaching, and a summary systemic teaching is carried out after the completion of all stages. For example, prepayments for construction projects, settlement and claims in the process, and final accounts for completion acceptance, divide the construction part of the whole process cost management of large projects into several stages, and give lectures and exercises in chronological order to make the teaching content More realistic operation.

5.2. Students Lack Motivation

This phenomenon may be that the case is not vivid enough to stimulate the initiative of students. In this case, you can try the group PK mode, add a scoring mechanism, integrate the course assessment, and simulate the entire process of cost management through role play. For example, in the whole process of cost management, how did the bidder, bidder and bidder carry out the bidding, bidding and bid evaluation during the bidding period, and finally how did the follow-up process of winning the bid be completed? For stage performances, so that everyone can participate.

5.3. The Cutting-Edge Message Is Too High

It is often empty to simply teach the new developments of the industry on traditional courses. Based on the project teacher team working in the front line of the enterprise, they can consciously collect relevant content at ordinary times, adopt information-based teaching, and use the process pictures, live photos, expert videos, etc. involved in the entire process cost management to show students the industry frontier. For example, the energy-saving design of buildings, using pictures and videos to give students a more intuitive display, through the comparison of building cost before and after energy-saving renovation, and the calculation of later operating costs, let students understand the importance of energy-saving design for cost management

6. CONCLUSION

Scientific research is nurturing teaching, and truly realizing scientific research serving teaching is the direction of current university efforts. On the one hand, scientific research can feed back teaching. On the one hand, teachers can achieve simultaneous research and teaching; on the other hand, they can stimulate students' interest in learning and stimulate students' independent learning. Improve students' innovative ability and achieve the goal of college education.

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