

Research on Double Tutorial System in the Course of Landscape Architecture Planning and Design

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Abstract—The double tutorial system is of great significance to the reform of higher vocational education and the cultivation of talents. It follows the principle of cultivating talents with sufficient theory and skills, pays attention to practical teaching, and carries out school-enterprise teaching in coordination. The purpose is to train skilled talents with craftsman spirit, literacy and technical level. The double-tutor teaching method of Landscape architecture Planning and design course can strengthen practical teaching, stimulate students' creative thinking, enhance students' interest in learning, realize school-enterprise joint education, dock garden jobs, and improve students' comprehensive quality.

Keywords—*landscape planning and design; double tutors; teaching*

I. TEACHING STATUS OF THE COURSE OF LANDSCAPE ARCHITECTURE PLANNING AND DESIGN

At present, the main curriculum teaching is basically completed independently by the school teachers. The teaching of Landscape Architecture Planning and design mainly includes two parts: theory and practice teaching. Theoretical teaching, which is based on the teacher's lecturing by multi-media, is lack of the students' participation and reaction; And furthermore, practical teaching is limited by funds, venues, time and so on, in which skills training platform is not mature that contributed to that students can't be placed in the actual planning and design projects, and work design is lack of pertinence, practicality and innovation. Theoretical and practical teaching can't be integrated into one course well and knowledge can't be updated in time and difficult to reflect the key points, all of which are not conducive to the cultivation of students' ability to analyze and solve practical problems. This is contrary to the teaching intention of this course.

II. THE NECESSITY OF DOUBLE TUTORIAL TEACHING IN THE COURSE OF GARDEN PLANNING AND DESIGN

It is a theory universally acknowledged that the double tutorial system is to implement the mode of training talents jointly by school teachers and enterprise tutors in Vocational education, aiming at cultivating talents who meet the requirements of job content and job skills. The school should make accurate docking and precise education, take the initiative to cooperate with enterprises, adjust

teaching according to the needs of enterprises, promote curriculum reform, so that the training level and development ability of skilled personnel can accurately dock with the development of mainstream enterprises, jointly formulate personnel training programs, jointly organize classroom teaching, and jointly carry out practical training to train the skilled talents with craftsman spirit, high literacy and high technology level.

The course of Landscape Architecture Planning and design is the core course of Landscape Architecture Design. In the teaching of Double Tutorial system, a teaching method combining theory with practice is established to cultivate students' application ability; in the quality training, the quality orientation of the coordinated development of professional ability and professional skills is established to cultivate students' practice, experience, innovation and coordination. The double tutorial system is to implement the mode of training talents jointly by school teachers and enterprise tutors in Vocational education, aiming at cultivating talents who meet the requirements of job content and job skills. The school should make accurate docking, precise education, take the initiative to cooperate with enterprises, adjust teaching according to the needs of enterprises, promote curriculum reform, so that the training level and development ability of skilled personnel can accurately dock with the development of mainstream enterprises, jointly formulate personnel training programs, jointly organize classroom teaching, and jointly carry out practical training so as to train skilled talents with craftsman spirit, high literacy and high technology level. The double tutorial system is of great significance to the reform of higher vocational education and the cultivation of talents. Strengthening the construction of the Double Tutorial team can innovate the cultivation mode of talents, improve the quality of talent cultivation, enhance the competitiveness of employment, and promote the combination of teaching activities and society. It is not only an important growth point for seeking the characteristics of the cultivation mode of talents but also an important trend in higher vocational education. [1] Double tutorial system is of great significance to optimize the structure of teachers, improve teachers' professional quality, enhance the popularity of colleges and universities, and improve students' comprehensive quality and professional ability. [2]

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III. "DOUBLE TUTORS" TEACHING OBJECTIVES

A. *Meet personnel training objectives based on job skill requirements and work content.*

It is necessary to investigate the requirements of landscape architecture design professionals in enterprises, to study the skills required in the process of work, and to formulate a reasonable personnel training program. The relevant professional courses are analyzed and arranged in skill modules, and a talent training program aiming at Vocational post skills is established to train compound talents with strong vocational adaptability and development ability to meet the needs of society.

B. *Develop relevant curriculum standards according to professional syllabus.*

"Landscape Architecture Planning and Design" course is the core course of Landscape architecture design, according to the personnel training program and teaching program elaborate curriculum standards, sub-module task-driven teaching.

C. *Pay attention to the training method of combining theory with practice.*

Following the cultivation of qualified personnel with sufficient theory and skills, paying attention to the combination of theory with practice and the interlacing of school-enterprise teaching, the teaching contents and teaching objectives of both in-school and out-of-school tutors are worked out in detail so as to establish a good teaching system and a supervision and assessment system.

IV. REQUIREMENTS FOR DUAL TUTORIAL SYSTEM

A. *The choice of "double tutors"*

One of the keys to the success of the dual tutorial system is the quality of the tutor. Therefore, the choice of dual tutors is very important. Schools should select and employ a group of outstanding talents both inside and outside the school to establish a high-quality mentor team. School tutors should select professional teachers with solid professional knowledge, strong sense of responsibility, strong organizational ability, high enthusiasm for work, strong communication ability, and certain practical experience in enterprises. Enterprise mentors choose professional knowledge, strong working ability, and strong sense of responsibility, good professional ethics, and participation in the guidance of outstanding projects and teaching professional backbone or technical experts. [3] It will be practicable that the school issues a formal letter of appointment to the tutor and pays the salary according to the school system.

If necessary, the conditions of tutors can be relaxed, which is combined with the characteristics of the school to conduct effective training of tutors, so as to alleviate the shortage of tutors and promote the growth of young teachers. [1]

B. *The working mechanism and responsibilities of "double tutors"*

1) *"Double tutors" working mechanism*

The essence of double tutorial system is a kind of collaborative innovation tutorial system. It is a new type of tutorial system teaching mode in which both school tutors and enterprise tutors participate in teaching, aiming at the practice teaching link in the specialized teaching, letting the student adapt to the enterprise demand, realizing University and the society seamless docking, simultaneously satisfying the student individuality characteristic and the demand, comprehensively promoting the student practice ability and the teaching to take the student as the center transformation.

The two sides sign a school-enterprise cooperation agreement to introduce enterprises into the school, set up a garden planning and design studio, and form a combination of engineering and learning, school factory personnel training mechanism. Part of the business is located in schools and schools are stationed in several corporate mentors and other employees. With the actual planning project of the enterprise as the carrier of teaching implementation, students are trained under the double tutorial system and the studio project system, reflecting the characteristics of application-oriented personnel training. Enterprises, schools and students tripartite integration, students in practice to complete the real project, and eventually grow into an excellent landscape planning and design professionals. [3]

Under the background of the Double Tutorial system, the school and the enterprise two tutors cooperate with each other, each has its own emphasis, and each has its own advantages and promotes each other. The Institute provides studios and teaching equipment, the cooperative enterprises participate in the whole process of professional personnel training program, joint textbook development and curriculum construction, the advantages of the school and the enterprise are closely linked, and actively promote the exploration and practice of the double tutorial teaching mode.

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2) *Duties of "double tutors"*

School tutors and enterprise tutors belong to different units. It is necessary to clarify the responsibilities of the two tutors for students in learning, life and education. The implementation of the responsibilities of the two tutors is the key to the implementation of the dual tutors. School tutors and enterprise tutors in the production, teaching and research collaborative innovation, students continue to consolidate professional knowledge under the guidance of double tutors, enhance professional skills, improve the comprehensive application of

professional knowledge, and improve social responsibility. School tutors and enterprise tutors should establish a corresponding relationship, an enterprise tutor and one or more school tutors cooperate with each other, and often communicate, jointly develop training programs and follow the implementation. School tutors and enterprise tutors are also learning from each other to make up for each other's weaknesses. In particular, school tutors should take the initiative to worship enterprise tutors as teachers, enrich teaching cases and materials, and enhance practical ability. [3]

The tutors in the school mainly teach the basic professional knowledge, guide the creative work, design requirements and norms, take into account the cultivation of students' innovative and entrepreneurial ability and social responsibility, including the structural adjustment of practical teaching, the whole arrangement and examination of students' practice, practice and graduation design, and cultivate students. Good learning habits enhance comprehensive ability.

Enterprise tutors mainly teach skills, lead students to participate in enterprise projects, carry out the actual operation of landscape planning and design, students in the actual project middle school, practice, innovation, perfect, cultivate the spirit of innovation and professionalism, taking into account the student's style of work, career development and social responsibility, and other aspects of guidance, to form a good career path. Moral, professional judgment and communication skills enable students to gradually adapt to future positions. [4]

C. The incentive mechanism of "double tutors"

The double tutorial system is still in the trial stage and needs to be perfected and broken through in practice. In order to fully mobilize the enthusiasm of all parties involved, the organizational system, funds and public opinion should be guaranteed, which is conducive to the formation of a benign interaction and competition between tutors, to stimulate enthusiasm for work. [1] Schools should advocate the teaching mode of double-tutorial system, encourage teachers from salary, professional title, subsidies and other aspects, protect their personal income when they are actively innovating in their work, and find out that good results should be commended and rewarded. The government and colleges should also increase the publicity of the dual-mentoring education model, vigorously promote the outstanding educational achievements, the training process of outstanding graduates, and the achievements of outstanding mentors, expand the influence of the dual-mentoring system, and enhance teachers' enthusiasm for participation.

D. The evaluation mechanism of "double tutors"

Teachers' work results are more abstract, which requires the abstract work results to be concrete and measurable indicators. Teachers' work attitude, work methods, work results, work quality, work enthusiasm, etc. should be implemented in the evaluation indicators. Schools and enterprises should build a dynamic database of double tutors, work out the assessment and incentive methods of double tutors, and define the conditions, treatment and assessment methods of the tutors. To ensure the effectiveness of supervision, we should combine supervision with evaluation,

give full play to the evaluation role of students, teaching managers and tutors, and adopt network in the evaluation methods. In the evaluation method, we should use interviews, questionnaires and work material inspection reasonably according to the specific situation, and establish a multi-subject and diversified evaluation model of the work of teachers. [1]

V. IMPLEMENTATION OF "DOUBLE TUTORS" IN THE COURSE OF LANDSCAPE PLANNING AND DESIGN

Landscape planning and design courses under dual tutorial system should consider teaching, training, practice, competition and so on. School and enterprise tutors lead students to carry out practical teaching, guide the gradual completion of a complete set of projects; select students to participate in competitions, targeted training for students; establish a double-tutor garden planning and design studio, focusing on guiding students' landscape planning and design capabilities. In the whole process, the tutors inside and outside the school cooperate with each other, strengthen the process management, improve students' working ability and employment confidence.

A. Changes in teaching methods

Landscape planning and design courses mainly cultivate practical talents with solid basic skills, pragmatic working attitude and strong adaptability. Cultivate students to master the basic theory, ideas and methods of landscape planning and design, master the analysis and design skills of various landscape design projects, focus on improving the planning and design ability of common garden green space, can independently or cooperatively complete the road green space, square green space, courtyard green space, park green space, residential green space, coastal area The scheme design and text making of landscape planning and design projects such as water and green space lay a solid foundation for the follow-up courses such as landscape engineering construction technology. Teaching should be integrated, typical landscape engineering projects should be selected to design curriculum standards, allocate various teaching resources, achieve the teaching content and market demand, vocational ability training and post ability demand. In this process, school tutors and enterprise tutors can also formulate and adjust personalized training programs according to students' quality, attitude and practical ability.

B. Integrate the craftsman spirit into teaching.

Craftsmanship is a kind of professional spirit and design quality. A designer with good professional spirit is more competitive. The double tutorial system is the best way to convey the "craftsman spirit" in landscape planning and design courses, which is conducive to the employment and future career development of landscape architecture design students. In the Double Tutorial system, students can train practical skills in landscape planning and design projects, strengthen practical ability, learn in practice, try to learn, in which students can quickly adapt to the enterprise's excellence, the pursuit of perfect standardized management model. Craftsman spirit, as a dedicated attitude and the spirit of excellence, is of great significance in landscape planning and design. [5]

C. Flexibly apply various teaching methods

In the teaching process of landscape planning and design course, the traditional multimedia teaching can't meet the teaching requirements. In order to fully arouse students' enthusiasm for learning, improve their initiative of innovative thinking, cultivate their practical ability, activate the classroom atmosphere, enhance the communication between teachers and students, and integrate theory with practice, it is necessary to apply various teaching methods flexibly and effectively in teaching practice, such as case teaching method, role simulation method, project implantation method, task driving method and so on.

Case teaching method is a new teaching method, which is enlightening and practical, and can improve students' analytical ability and comprehensive quality. [6]

Role simulation method is to let students in the process of training, from student behavior and identity to professional behavior and identity simulation, so that students perceive the necessity and practicality of professional knowledge and skills learning, gradually conscious and spontaneous learning, [7] comprehensive and practical, can greatly improve students' interest in learning.

Project implantation method refers to the teaching process of landscape planning and design, combined with the characteristics of landscape design students in Higher Vocational colleges, according to the teaching content of the introduction of the corresponding actual project; so that students have an intuitive feeling of the knowledge learned, master the application of theoretical knowledge in practice. Task-driven method sets typical teaching tasks, and intervenes in the guidance in time, strengthens the interaction between teachers and students, helps students master relevant professional skills, strengthens the comprehensive training of students' post vocational ability, carries on the landscape planning plan design, the plan exchange and revision, the plan text production, the result display and report, the landscape project, construction drawing training and so on.

D. Updating of teaching resources and teaching methods

The teaching resources of landscape planning and design courses mainly include content resources, media resources and methods resources. Content resources mainly include the dynamic landscape architecture design professionals training program, curriculum design, training guidance, project-based case base and so on. Media resources mainly refer to courseware, video, animation, web-based teaching platform, mobile learning platform, other learning tools or online communication tools, etc. Methods resources mainly include a series of teaching methods implemented by two tutors. [3]

Landscape planning and design course teaching should make full use of other modern teaching methods including multimedia, through text, images, audio and video to solve the problems in classroom teaching. For example, micro-course, micro-letter, QQ and the opening of online learning forum teaching, in many ways to guide students to participate in

learning, improve teaching resources and teaching methods, to solve the traditional single boring teaching methods.

E. Examinations including multimedia

The course of landscape planning and design should establish a scientific assessment system, including process, finality, theory and practice. Students' classroom performance, practical skills, knowledge application ability, innovative thinking ability, teamwork, work performance effect and homework completion efficiency should be taken as an important part of assessment and evaluation. In the part, the students are comprehensively investigated, [4] stimulate the thinking of the students, strengthen the monitoring of the students' learning process, and improve the comprehensive quality of the students.

VI. CONCLUSION

The teaching of Double Tutorial System in landscape planning and design course should be compiled according to the goal of cultivating talents, in which the teaching structure, teaching methods, teaching means and teaching environment should be adjusted actively, practical classrooms, the construction of practical teaching platform, and practical teaching should be improved in order to realize the joint education between schools and enterprises and link up with social development and post. In the purpose of creating an open, cooperative, pluralistic and shared culture atmosphere of innovation in practice teaching, students can experience success in practice. Adopting the Double Tutorial System in the teaching of this course can fully mobilize the positive factors in all aspects, take full advantage of resources from all sides, and cultivate high-quality skilled students to meet the demands of enterprises and society.

REFERENCES

- [1] Li Youguo, Shaoyang. Construction and Promotion Path of "Double Tutor System" for Educational Courses in Normal Universities [J].Journal of Guizhou Normal University, 2015.11.(In Chinese)
- [2] Gao Jinmei. Exploration on the Reform of Teaching Mode of Art Design Specialty in Colleges and Universities under the Environment of School-Enterprise Cooperation [J].Cultural and Educational Materials, 2014 (8): 149-150.(In Chinese)
- [3] Lu Xingfeng. Exploration on the Teaching of "Double-lead" Specialty under Modern Apprenticeship--Taking the Specialty of Landscape Planning and Design in Higher Vocational College as an Example [J]. Forum on Industry and Technology, 2017 (16): 202-204.(In Chinese)
- [4] Xu Xinghai. Discussion on the Practical Teaching Model Based on the Cultivation of "Double Creative" Ability [J].Journal of Hengshui University, 2018.02.(In Chinese)
- [5] Chapter. Research on the Training Model of Artistic Talents in Colleges and Universities Based on the Traditional "Craftsman Spirit" [J].Art Design Research, 2015.03.(In Chinese)
- [6] Zhang Qin. Application of case teaching in curriculum [J]. Tianjin Agricultural Sciences, 2013, 19 (7): 87-91.(In Chinese)
- [7] Wang Zhitai, Bao Yu. Exploring the teaching method of landscape curriculum [J]. Forum on education and culture, 2015 (2):88-90.(In Chinese)