



Reform and practice of 'six in one' comprehensive ability cultivation in horticulture specialty

Cuiling Tong¹, Dejian Zhang^{2*}

¹⁻² College of Horticulture and Gardening, Yangtze University, Jingzhou, Hubei, China

¹⁻² Jingzhou Institute of Technology, Jingzhou, Hubei, China

* Corresponding Author: **Dejian Zhang**

Article Info

ISSN (online): 2582-7138

Volume: 03

Issue: 04

July-August 2022

Received: 07-06-2022

Accepted: 22-06-2022

Page No: 146-148

Abstract

The current economic crisis is spreading all over the world, and China cannot be immune from the international environment. The market competition is becoming fiercer and the employment pressure is increasing. College students majoring in horticulture how to take the initiative in this situation, to lay a foundation for better employment and better prospects in the future, which needs to cultivate college students' comprehensive quality and ability. This study is the first to implement the cultivation of 'six in one' comprehensive ability of horticulture specialty in colleges and universities in Hubei Province, and provides reference for cultivation of horticulture specialty talents in other colleges and universities in Hubei province and even the whole country. By allowing students to organize and participate in various competitions, academic reports, entrepreneur salons, alumni sharing meetings, and college students' innovation and entrepreneurship plans, students' recognition of horticulture value can be increased, their interest in learning can be improved, and the teaching quality can be improved. Through guiding students to carry out horticultural skills competition, horticultural plant production practice and scientific research, and finally to show in the form of competition honors, horticultural products, academic papers, patents and so on, so that students can get a sense of achievement, and then improve the quality of teaching. By improving students' comprehensive ability, improving students' comprehensive quality, increasing students' employment competitiveness, enabling students to integrate into the society and devote themselves to horticulture, helping rural revitalization.

Keywords: Horticulture, general ability, skill competition

1. Introduction

In 2018, The State Council formulated the Strategic Plan for Rural Revitalization (2018-2022), emphasizing the development of primary industry, strengthening the construction of agricultural technology personnel, strengthening the construction of agriculture-related colleges and disciplines, and vigorously cultivating agricultural science and technology personnel^[1]. As a primary industry with high economic value, horticulture is the combination of fruit trees, vegetables and ornamental horticulture, which has the characteristics of wide knowledge and strong practicality. In response to the national rural revitalization strategy, agricultural colleges and universities should cultivate horticultural professionals with modern agricultural competitiveness, which requires students to have a strong comprehensive ability.

The provincial teaching and research project "Exploration and Practice of Cultivating Excellent Innovative Talents in Horticulture specialty" carried out teaching research on improving students' pioneering and innovative ability based on this, but did not carry out research on improving students' other abilities.

After investigation, Anhui Agricultural University and Nanjing Agricultural University pay little attention to the cultivation of students' organization and management ability in the cultivation of horticultural talents.

Shaoguan University cultivates innovative horticultural talents to serve agriculture, rural and rural industries through "three classes", relatively narrow sense; Henan Institute of Science and Technology through the construction of the curriculum system to put forward horticulture composite innovative talents to help agriculture, but still failed to improve the comprehensive ability of students [2].

In this, this study based on gardening professional conduct 'six in one' comprehensive ability training reform research, namely fusion student language expression ability, interpersonal skills, organization and management ability, hands-on practice ability, innovation ability and social adaptation ability (comprehensive) is an organic whole, enhance the student to the horticultural value recognition, improve the students' comprehensive quality, set up a horticultural career ambition, contribute to rural revitalization.

2. Language expression ability training

Language expression ability raise the research-oriented teaching demonstration course (gardening plant nutrition diagnosis, horticultural plant biotechnology) as the carrier, to achieve "combined with a study class", under the heuristic, exploratory, interactive teaching, the students into groups, each group assigned a gardening professional problem, students to collect relevant data and report making PPT. In order to promote students' active learning, develop language expression ability, inspire scientific thinking [3].

Organize students to actively participate in various competitions held by schools and colleges, such as host selection contest, "Morning Cup" debate contest, Yilin Forum speech contest, poetry recitation contest, etc., so as to increase students' confidence and improve their language expression ability.

3. Develop interpersonal skills

Interpersonal skills training on college students' summer social practice as an opportunity to declare by professional teachers guide students and to participate in summer a program under which officials "social practice", "youth red dream tour" and other activities, let students to the society, and into the villages and towns, which not only can broaden students' vision, insight into the horticultural industry, also can improve students' interpersonal skills [4].

4. Organization management ability training

Organization and management ability in the professional under the guidance of the teacher organizations to take part in gardening, academic report, enterprise salon and anniversary as an opportunity to hold alumni sharing, in order to improve student organization management ability, and can broaden students' horizons, enhance confidence in horticultural science and the gardening industry value recognition, improve the students' learning interest, So that the students set up horticulture career aspirations, help rural revitalization [5].

5. Practical ability training

The cultivation of hands-on and practical ability is carried out by the comprehensive practice of industry-university-research cooperation major (half a year), and scientific research workers from high-quality national horticultural research institutes (such as Institute of Forestry and Fruit of Shanghai Academy of Agricultural Sciences, Institute of

Horticulture of Zhejiang Academy of Agricultural Sciences, etc.) are employed as external tutors for horticultural students. The tutors will conduct mentoring teaching in the form of mentoring. Among them, chuanwei imparts rigorous scientific research thinking of horticulture, and gongwei leads the students into the field of horticulture scientific research to help them learn horticulture scientific research methods. In order to improve the students' learning initiative, cultivate their hands-on practice ability, stimulate their potential awareness and thinking of horticulture research, and guide them to continue their postgraduate study [6].

6. Develop and innovate ability

Exploration and innovation ability cultivation and implementation of horticulture undergraduate graduation thesis to broaden the scope of patent, that is, students under the guidance of professional teachers horticulture-related patent research and development and declaration work, innovative scientific research results (patent), in order to improve the ability of innovation students.

7. The cultivation of social adaptability

Social adaptation ability for college students' innovative entrepreneurial training program as the carrier, for the university innovation entrepreneurship center about entrepreneurship class project funding support, combined with gardening market orientation guide students entrepreneurship training (such as a cactus plant product research and development and sales strategy, the rapid propagation of bulb flowers and marketing - zhu red, for example, etc.), in order to improve students' social ability [7].

8. Conclusion

Through the reform of 'six in one' comprehensive ability cultivation, a scientific evaluation system of comprehensive ability cultivation can be established, and a detailed road map of comprehensive ability cultivation for students of all grades can be established.

9. Funding: This work was funded by the Key teaching and research Project of Yangtze University in 2020 (JY2020021).

10. References

1. Shao X. The enlightenments to the strategy of rural revitalization in China from the experiences of foreign financial support for rural construction. Proceedings of the 2nd International Conference on Education Science and Social Development (ESSD 2019). 2019;127(4):319-328.
2. El-Feky MA, Abdel Monem AS. Rural women's perception of the impacts of the phenomenon of climate change on Egyptian agriculture in some villages of Tanta District, Gharbiah Governorate. Egypt's Presidential Specialized Council for Education and Scientific Research. 2021;127(4):319-328.
3. Jaffe E, Aviel E, Kodinsky N, et al. The dual benefit of first aid training among civilians in a time of war. *Injury Prevention*. 2010;16:566-588.
4. Searl KR, McAllister M, Dwyer T. Little people, big lessons: An innovative strategy to develop interpersonal skills in undergraduate nursing students. *Nurse Education Today*. 2014;34(9):1201-1206.
5. Logan JW III. A technique for assessing an organization's ability to change. *IEEE Transactions on*

- Engineering Management. 2004;51(4):483-488.
6. Xia X. Exploring the way of training students' practical ability in higher vocational colleges. Liaoning Higher Vocational Technical Institute Journal. 2005;16(11):241-250.
 7. Eguchi T, Schmidt R III, Dainty A. The cultivation of adaptability in Japan. Open House International. 2011;36(1):73-85.