



Strategy Research on Improving College Students' Innovative Literacy Under the Concept of High-Quality Development

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Abstract. Director General Wu Yan delivered a report on “Deepening New Educational Reform, Creating New Forms and Improving new quality” at the 2022 National Higher Education Directors’ Meeting. The report points out that we should pay attention to the cultivation of innovative compound talents, and promote the reform of higher education curriculum system and teaching content. This paper mainly analyzes the current situation and existing problems of college students’ innovation literacy, and puts forward the strategy of improving the innovative quality of college students under the concept of high-quality development. Finally, the teaching effect after the innovative application of the teaching model is compared.

Keywords: high quality development · innovation literacy · strategy

1 Introduction

At present, many countries in the world put the focus of education on the cultivation of innovation literacy, and the cultivation of innovation literacy has become a very important factor in the formulation of core literacy in many countries. At present, due to the reform of teaching methods is not in place, the construction of practice platform is insufficient, the assessment method lags behind and other reasons, which results in some college students lack of innovation consciousness and innovation ability. Therefore, when colleges and universities implement the fundamental task of cultivating virtues and cultivating people, how to improve the innovative literacy of college students, how to reform the curriculum system and teaching content, so as to improve the quality of talent training and output high-quality innovative talents for the construction of a new development pattern has become a practical problem to be solved urgently by the academic circle.

2 Current Situation and Problems of College Students' Innovative Literacy Under the Concept of High-Quality Development

2.1 College Students' Innovation Consciousness is Weak and Innovation Quality is not High

The 20th National Congress of the Communist Party of China clearly stated: "Accelerate the construction of a high-quality education system". Only by cultivating and exploiting students with innovative spirit, entrepreneurial consciousness and innovative entrepreneurial ability can we promote the high-quality development of education [3]. It is necessary to update the educational concept, establish a multi-level and three-dimensional curriculum system, and establish a scientific evaluation index system. Innovation literacy is at the core of all literacy. As a result, their innovation literacy is not high enough to meet the demand for high-quality innovative talents in the construction of a new development pattern [1].

2.2 The Knowledge Structure of College Curriculum is Unreasonable and the Curriculum System Jacks Innovation

During the cultivation of innovation literacy, the most direct and effective carrier is the curriculum. The disadvantage of the traditional single curriculum is an urgent problem for the education community to solve. Many teachers in colleges and universities emphasize theory while neglecting practice, and ignore the correlation between disciplines. Scattered and fragmented knowledge leads to weak logic of curriculum knowledge system. Curriculum integration is to integrate related knowledge points of relevant subject courses as a whole, enhance the correlation of various knowledge points, and improve the educational effect of courses through project practice and comprehensive application [2].

2.3 Research on the Current Situation of the Curriculum System of University Students' Innovative Literacy

The exploration of innovative paths for the implementation of school curriculum is still in its initial stage. The school builds platforms in each link of curriculum construction to help teachers enhance their autonomy and curriculum ability, and promote teachers to change from the protagonist of the class to the leader of the class. Curriculum is the core carrier of innovation literacy education. Therefore, the breadth, height and depth of curriculum system construction determine the development of innovative literacy education. Li Zhong [4] analyzed the importance of curriculum system for improving teachers' ability and consolidating their innovation ability from the aspects of curriculum development, curriculum implementation and curriculum evaluation.

3 Strategies to Improve College Students' Innovative Literacy Under the Concept of High-Quality Development

3.1 Improve Teachers' Innovative Literacy

The improvement of teachers' innovative literacy can be achieved from the following three aspects: First, teachers should always pay attention to the information in the forefront of education, social hot spots, etc. With the rapid development of information technology, teachers must update their knowledge base in time. Only in this way can they timely inform students and help them broaden their vision, expand their thinking and explore innovation. Second, teachers should go out of the campus and actively participate in various training, workshops, academic exchanges and discussions, and practice in the company. Teachers can learn a variety of excellent results, through various channels to improve their own innovation literacy. Third, schools should invite experts to campus to provide teachers with all kinds of favorable learning opportunities and convenience [5]. Through expert guidance and experience imparting, help teachers in teaching design, teaching model innovation and reform, improve the quality of teaching.

3.2 Curriculum Reform of Teaching Mode and Teaching Method

The traditional teacher-led teaching is not conducive to students' divergent thinking and innovative thinking. Teachers can improve students' innovative thinking only by constantly innovating teaching mode and teaching method. In the teaching design, we should adhere to the concept of student-centered, output as the goal, and continuous improvement [6]. I have been exploring 234 teaching model with full participation based on OBE concept. In the classroom teaching, two teaching platforms are used, namely, Super Star Learning Connect and Xun Fei Zhi Teaching. Super Star Learning Connect is responsible for uploading teaching resources and organizing and implementing classroom activities. Xun Fei Zhi conducts courseware demonstration, annotation and video recording, etc., and focuses on the interaction with students in class to build an ecological class. Teachers should teach students to "enjoy learning", "know learn" and "learn". Among them, "know learn" is the core. Therefore, only the continuous reform of teaching mode and teaching method, innovation of teaching mode can achieve the best teaching effect [7].

3.3 Use the Teaching Platform to Construct the Integrated Curriculum System

Based on the super Star Learning platform, this paper puts forward four requirements for curriculum integration that point to the cultivation of students' innovative literacy [8]: Integration of disciplines to enrich curriculum resources for cultivating innovative literacy; The three-level curriculum is connected to improve the curriculum system of innovation literacy cultivation; Subject traction to broaden the practice path of cultivating innovative literacy; Improve teachers' curriculum integration ability to provide guarantee for the cultivation of innovative literacy.

Combined with OBE teaching concept, aiming at improving college students' innovative literacy, guided by post requirements, relying on learning platform, and according to the four requirements of curriculum integration, teachers adopt the four-step teaching method of "guided learning, self-study, assisted learning and research" in the classroom implementation in accordance with the three principles of "input and exit, full participation and diverse activities" in the teaching design, integrating multiple disciplines [9]. To innovate the evaluation method and construct the integrated curriculum system of "434" model to enhance students' innovative literacy (Fig. 1).

4 Teaching Effect After Implementation of the Strategy

Through the innovation of teaching mode and the construction of integrated curriculum system, teachers' teaching design ability and students' comprehensive practical ability have been greatly improved. After the application of the results, I compared the data with students in a class [10]. The comprehensive quality of students includes participating in competitions, publishing papers, participating in scientific research projects, etc. The comprehensive evaluation of teachers' classroom quality includes student evaluation, supervision evaluation and peer evaluation (Table 1).

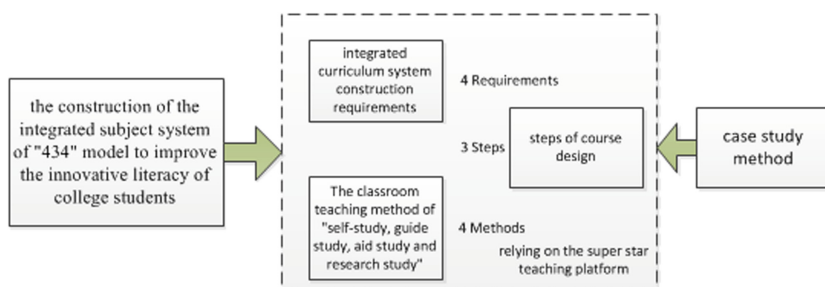


Fig. 1. The integrated curriculum system of "434" model [Photo credit: Original]

Table 1. Results Comparison [Table credit: Original]

curriculum system	Student participation in class	Excellent rate of curriculum design	Course average	Student's comprehensive quality score	Comprehensive evaluation of teachers' classroom
traditional curriculum system	60%	9%	72.4	55%	83.2
unify curriculum system	92%	16%	80.1	80%	90.8

5 Conclusion

This topic starts from the perspective of curriculum integration to reconstruct the curriculum system, and improves the innovative literacy of college students, so as to improve the quality of training innovative talents, to promote the high-quality development of higher education, and realize the conformal development of higher education.

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