

On the Construction of Online Teaching Platform for Air Stewardess Major in Higher Vocational Colleges Based on the Concept of Flipped Classroom

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Abstract—At present, the classroom teaching in higher vocational colleges has a low level of informationization and the teaching quality needs to be improved. This paper takes the construction of the online teaching platform for the specialty of air stewardess in higher vocational education as the research object, works out the specific methods through the theory to introduce the flipped classroom concept in the construction of the online teaching platform, and sums up five modules for the platform to be constructed, in a bid to promote the reform of classroom teaching in the specialty of air stewardess and improve the teaching effect.

Keywords—*flipped classroom; online teaching platform; construction; study*

I. INTRODUCTION

The goal of higher vocational education in China is to cultivate high-quality technical personnel for enterprises' production, operation and service,^[1] which requires higher vocational colleges to strictly control the quality of classroom teaching, produce diversified teaching methods and rich teaching contents for students and allow for various learning methods. With the deepening of education and teaching reform, the digital campus is constructed in colleges and universities, changing students' learning philosophy. It will become a prevailing trend for college students to learn online through mobile phones.

According to the 43rd Statistical Report on the Development of the Internet in China, released by the China Internet Network Information Center (CNNIC), there were 829 million Internet users in China by the December 2018, with 56.53 million newly added. The popularity rate of the Internet reached 59.6 percent, up 3.8 percent from the end of 2017. The population of China's mobile Internet users reached 817 million, with 64.33 million new users joined in 2018. The proportion of Internet users using mobile phones to surf the Internet rise from 97.5% at the end of 2017 to 98.6% at the end of 2018. To sum up, mobile Internet has become one of the most commonly used online channels.^[2]

The Outline of the National Medium- and Long-term Plan for Education Reform and Development (2010-2020) points out that information technology has a revolutionary impact on

education, and we should promote the modernization of education with the informatization. In the work highlights of the Ministry of Education in 2016, it is also clearly pointed out the fundamental task of cultivating talents with moral integrity and improving the quality of education in the long run. We need to deepen the curriculum reform, optimize the talent cultivation mechanism in colleges and universities, promote the sharing and application of online and offline courses, and popularize the normal application of information-based teaching.^[3] The key points of education informatization work in 2016 also indicate that colleges and universities should be guided to use online open courses to explore the reform of flipped classroom, mixed teaching and other teaching methods. *NMC Horizon Report: 2015 Higher Education Edition*, jointly completed by The New Media Consortium and the EDUCAUSE, predicts that in the next 1 to 5 years, Bring Your Own Device (BYOD) and flipped classroom will exert an important impact on higher education.

In the national education informatization development, flipped classroom teaching model has exerted an important impact on the teaching reform of colleges and universities in China. Flipped classroom has attracted the attention of educational researchers by both its theory and practice. Experts, scholars, educational institutions and Internet enterprises at home and abroad are conducting extensive and in-depth research on the flipped classroom. At present, China has built several teaching video websites, such as high-quality university courses network, super star video teaching network, and Netease Online Open Courses, which are popular with the public.

This paper attempts to shed light on the connotation and denotation of the flipped classroom, expand the breadth and depth of the theoretical research on the teaching model, explore the effective application of the flipped classroom concept in network teaching platform construction of higher vocational flight attendant profession, and grope a curriculum standard and an evaluation standard, to promote the reform of classroom teaching and improve teaching effect.

II. LITERATURE REVIEW

The traditional teaching philosophy put much emphasis on the teachers' teaching, rather than students' learning. Schools in modern day are designed in line with the factory. Students are similar to the product to be processed. Having been put on the assembly line, they flow according to the well-arranged program. However, the function of education is to pass on the knowledge and experience that have been accumulated to the next generation for their physical and mental development, so as to cultivate the talents for the society, promoting the social development. Therefore, people come to doubt whether the modern education system can fulfill its role. Educational and teaching reform has become an eternal research topic. Whether in the basic education reform or the higher education reform, the classroom is important for students' growth, and presents as the key to the success of the reform, directly related to the quality of talent training. Colleges and universities that are proceeding the teaching reform, are mainly adjust their profession structure, work hard in course construction, complete the teaching group, promote practical teaching and implement teaching evaluation. Whereas, few of them have gone deep into the core of the teaching, the classroom teaching paradigm, which affects the deepening of the reform. Flipped classroom is well recognized as the learning reform in the 21st century. And as an emerging classroom teaching practice, it provides a new approach for our country's higher education teaching reform.

Higher education has attracted much attention as it is of great importance to cultivate personnel in line with the social needs. However, the current college classroom teaching has been frequently criticized by its randomness, lack of humanistic care for students, teaching content being divorced from social practice and the cramming teaching methods. The current researches on classroom teaching in colleges and universities can mainly be classified into five aspects. (1) Research on relevance. It mainly explores the relationship between elements of classroom teaching and teaching quality in colleges and universities. (2) Research on study methods. This kind of research mainly taps into the application of the study approaches like classroom observation, intensive interviews, case study and quasi-experimental study in classroom teaching reform. (3) Theoretical basic research. Research on theories such as constructivism, situated learning, humanism theory and postmodernism teaching theory. (4) research on teaching elements. (5) Research on classroom ecology. However, few studies have fallen on the existing shackles of classroom teaching, so the emergence of flipped classroom has aroused the upsurge of research and practice of classroom teaching in colleges and universities.

Over 500 core journals can be found on the China National Knowledge Infrastructure (CNKI) by searching the "flipped classroom". Most researches focused on the localization analysis of flipped classroom, the application and mode exploration of flipped classroom teaching based on classroom structure change, and resources and condition. Few clarified the effective application of flipped classroom in the construction of online teaching platform.

III. VALUE OF RESEARCH

In the Internet + era, the practical research on the construction of online teaching platform for flight attendant profession in higher vocational colleges based on the concept of flipped classroom boasts certain theoretical significance and application value in promoting the classroom teaching reform of the major.

A. Project theoretical value

(1) By analyzing the basic ideas and methodological basis of flipped classroom teaching, theoretical knowledge and specific case study can be enriched to provide guidance and scientific theoretical basis for the construction of online teaching platform for flight attendants in higher vocational colleges.

(2) Through the research on flipped classroom concept, we can develop a design standard and an implementation standard for the online teaching platform of the specialty of air stewardess, and produce a set of models suitable for the construction of the network teaching platform of higher vocational air stewardess theoretical courses and practical, so as to gear the platform construction toward specialization, industrialization, and informatization.

B. Project practical value

(1) The research results of flipped classroom concept will be translated into concrete practice to promote the construction of online teaching platform for air stewardess courses in higher vocational colleges and improve the teaching effect.

(2) Put China's innovative talents training into practice by promoting knowledge creation, providing students with independent learning space, and cultivating students' active learning habits.

C. Project promotion value

(1) Apply the theoretical research fruits to practice, promote the teaching reform of flight attendant major in higher vocational colleges to deal with the predicament of the current classroom teaching reform in higher vocational colleges.

(2) The research results can also provide feasible construction practice mode for the construction of online teaching platform of theory course and practical course in higher vocational colleges and promote the deep integration of modern information technology and higher vocational education teaching, which conform to the general trend of "Internet + education".

IV. FEASIBILITY ANALYSIS

This study aims to establish a new teaching mode based on the construction practice of the Weizhiku platform and guided by the concept of flipped classroom, so as to eliminate the disadvantages of traditional teaching. By combining the research results with the practice of the network teaching platform construction for flight attendance in higher vocational colleges, this paper attempts to establish a feasible and meaningful practice model of the network teaching platform, standardize the construction of the network teaching platform for flight attendants in higher vocational colleges, and provide guidance for the teaching reform of this specialty.

The practical research on the construction of online teaching platform for flight attendants in higher vocational colleges based on the concept of flipped classroom can be carried out from the following five aspects.

A. Theoretical analysis of flipped classroom

Tease the theories of the flipped classroom, and analyze their connotation and denotation. Compare the flipped classroom with the traditional teaching in their concept origins, development context and natures, so as to explore the advantages of flipped classroom in the teaching of the air stewardess in higher vocational colleges.

The theoretical research on the concept of flipped classroom provides specific practical guidance for the construction of the online teaching platform for flight attendants in higher vocational colleges, and meanwhile provides specific construction models for various courses (theoretical courses and practical courses) of flight attendants in higher vocational colleges. Under the background of the national informatization development, priority has been given to explore how to apply the flipped classroom into the construction of flight attendant profession Weizhiku network teaching platform. Taking the platform construction of two typical courses as an example, test the effect of online teaching platform under the guidance of the flipped classroom concept through the practice.

B. Classroom form deconstruction

Figure out the approach and orientation of classroom teaching reform of flight attendant major in higher vocational colleges based on the flipped classroom from the perspective of classroom teaching structure. The significant external change of flipped classroom is the reconstruction of classroom teaching structure. Generally, the flipped classroom refers to the inversion or reversal of the teaching process which is usually in the order of "pre-class, in-class and after-class" or "in-class and after-class". This study analyzes the category, quality evaluation and performance of flipped classroom from the dimensions of pre-class, in-class and after-class. Deconstruct the classroom form, and then build construction practice model for the online teaching platform of the air stewardess specialty in higher vocational colleges based on the flipped classroom concept. This model is expected to effectively guide the online teaching platform construction of all courses of this major.

C. Construction of professional teaching resources based on the concept of flipped classroom

Based on the concept of flipped classroom, we can carry out the construction of the professional course integrated "teaching, learning and doing". Teachers can use courseware, micro class, video and teaching plan to organize classroom teaching. Students can learn independently through the teaching platform like Weizhiku. In the teaching, there are diversified links like theoretical guidance, exercising, simulation test and practical training.

D. Exploration of application mechanism

This paper sheds light on both theory and practice. It not only emphasizes the theoretical research based on literature,

but also attaches importance to the construction and application of online teaching platforms with various courses of flight attendance in higher vocational colleges under the guidance of flipped classroom concept.

This paper aims to deconstruct the classroom teaching form based on the concept of flipped classroom, analyze the value limits and possible directions of flipped classroom in classroom teaching reform of air crew major in higher vocational colleges, explore the application mechanism and strategies of flipped classroom in colleges, and promote the sound development and proper application of flipped classroom in colleges. The Guangzhou Civil Aviation College implements the flipped classroom teaching in its specialty of air stewardess on Weizhiku teaching platform, based on which this paper explores the application mechanism of flipped classroom, and combines the flipped classroom concept and the online teaching platform construction practice to fumble how to construct a teaching platform for different learners (teaching) at different leaning (teaching) stages. Through this teaching platform, the construction of student independent learning mode based on the concept of flipped classroom was explored, and the teacher-student relationship was reconstructed to ensure the sustainable development of the new teaching mode of the network teaching platform. Try to establish a set of scientific and feasible construction standards.

E. Implementation effect evaluation

At present, the evaluation and assessment of flipped classroom have been hotly studied. Following the research focus and trend, this study, in combination with the emerging learning-oriented assessment, explores the assessment strategies of the flipped classroom in colleges and universities, and check the teaching effect and performance. The efforts in technology application exploring and model updating are all made to promote the learning-based concept, and the classroom based on students' learning.

V. CONCLUSION

The practical research on the construction of online teaching platform for flight attendants in higher vocational colleges based on the concept of flipped classroom is helpful to promote knowledge creation, provide students with independent learning space, and cultivate students' active learning habits, which put the cultivation of innovative talents into practice in China.

The construction of online teaching platform for flight attendants in higher vocational colleges based on the concept of flipped classroom embodies the openness and advancement of the teaching activities. Through the information technology, it enables students to learn independently, and promotes students' progresses in professional knowledge, vocational skills and operational techniques.

With the aid of network teaching platforms, students major in flight attendants can combine the theory with the practice. Teachers can reap good teaching effects in the practice, raise students' capability to analyze and solve problems, and cultivate their working competitiveness to quickly adapt to the jobs. The network teaching platform is worthy of promotion as it conforms to the development of higher education, and is of

great significance to raise the teaching quality in flight attendant profession.

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The phased achievements of *Exploration and Practice of the Teaching Mode of Cabin Emergency Management Training Based on WeChat Official Accounts Platform* (No. GDGZ17Y036), the general subject of Guangdong higher vocational education research council

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