Research on the promotion mechanism of college teachers' core competence in information-based teaching

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Abstract: *Building a team of high-quality teachers is the basic work of university construction. This paper specifically analyzes the meaning of College Teachers' information-based teaching core ability, and comprehensively improves our teachers' information-based teaching ability by building a platform for improving teachers' information-based teaching ability, designing teachers' information-based teaching ability improvement activities and constructing information-based teaching ability training resources.*

Keywords: *information teaching; core competence; teaching resources*

1. Introduction

In the "opinions on accelerating the construction of high-level undergraduate education and comprehensively improving talent training ability", the state clearly pointed out to comprehensively improve teachers' educational ability, widely carry out educational and teaching research activities, and improve teachers' ability to deeply integrate modern information technology with education and teaching. In particular, during the novel coronavirus epidemic prevention and control period in 2020, in accordance with the national deployment on novel coronavirus pneumonia epidemic prevention and control, all colleges and universities fully implement the work requirements of "delaying the start of school, teachers' non-stop teaching and students' non-stop learning", widely apply " Internet + education", give full play to the role of various high-quality online courses and public course service platforms, ensure the orderly development of education and teaching activities during the epidemic prevention and control period, and ensure the teaching quality [1]. The special requirements of the special period have brought unprecedented challenges to teachers. During the epidemic period, teachers are required to quickly update their educational ideas, adapt to the new teaching mode, and master the necessary online teaching information skills. They need to complete the teaching tasks with quality and quantity through reasonable curriculum content design, teaching activity organization and continuous innovation of teaching methods, so as to cultivate talents of the new era with independent thinking ability and innovation and entrepreneurship ability.

2. Composition of College Teachers' core competence in information-based teaching

Building a contingent of high-quality teachers is the basic work of university construction. Minister Chen Baosheng pointed out at the National Conference on undergraduate education in Colleges and universities in the new era that teachers should "return to their duty, that is, teachers should devote themselves to teaching and educating people". Teachers should be guided to love teaching, devote themselves to teaching and research teaching. In today's information-based teaching era, whether we can become a qualified teacher or not, we need to analyze and study the composition of teachers' information-based teaching core competence from the perspective of the characteristics of higher education. This paper will discuss the composition of College Teachers' core competence of information teaching from three aspects.

2.1. Informatization teaching resource construction and integration ability

With the application of various intelligent teaching platforms, the ways and means for teachers to obtain information resources are becoming more and more convenient. At the same time, teachers have

higher and higher requirements for the selection and integration of information resources [2]. Therefore, teachers are required not only to have the requirements of acquisition ability for the information resources of information-based teaching, but also to be able to select the information in line with their professional knowledge in combination with their own specialty. In particular, it is important to have the ability to select appropriate materials for the construction of digital resources.

2.2. Ability to design information-based teaching activities

In the information age, teachers should use various information means to carry out teaching activities. Compared with traditional teaching, we should reconstruct the teaching process on the information teaching platform and redesign the teaching process on the basis of being familiar with the functions of the platform. Realize the network online learning organically combined with students' "before class", "in class" and "after class", and gradually realize the hybrid teaching mode of combining classroom teaching with network teaching and mobile teaching. Break the time and space constraints of university campus and realize students' distance teaching and flexible autonomous learning.

2.3. Implementation ability of information teaching

The implementation of information-based teaching determines the teaching effect of teachers. Teachers should be able to skillfully use the information application platform and software, and make more efforts in the application of teaching information means and methods and the use of information teaching skills, so as to achieve the effect of full integration with the application platform. Teachers should have the ability to promote the diversification of means of using information technology and multimedia technology, reform education and teaching methods, and improve students' learning effect.

3. Main ways to improve the core competence of College Teachers' information-based teaching

3.1. "The foundation of teaching": focus on new teachers and strengthen induction guidance

In view of the "confusion" and "annoyance" of young teachers, we implemented the credit system three-dimensional training system of pre job training, induction teaching training and teaching skill training, held theme lectures such as "how to teach a good lesson" and "analysis of the frontier of teaching information technology", and guided NEW and old teachers to understand teaching, read teaching and understand teaching by organizing new and old teachers to help and cooperate, so as to realize the full coverage of new and young teachers and shorten the growth cycle, Ensure that young teachers stand firmly on the podium.

3.2. Develop "research and training industry": focus on teaching ability and carry out special research and training

Research and training is the basic way to boost teachers' professional development, so it is also the core business of the center. Focusing on "promoting teaching through training", the center strengthens the timeliness and pertinence of the cultivation of classroom teaching ability, defines the fundamental task of improving teachers' classroom teaching ability, provides teachers with a modular learning course menu, and builds a three-dimensional platform of "in school training + online training + out of school training" [3]. More than 6000 people were trained. Among them, there are 12 centralized training sessions in the school, with more than 5000 person times. The content of teacher training is modular, including 8 modules: teaching research, teaching skills and teaching competition. The training schedule is accurately connected with the teaching reform, with strong pertinence, high enthusiasm of teachers and good effect.

3.3. Promote "technology empowerment": focus on classroom innovation and promote information technology

Strengthen the top-level design of intelligent classroom teaching, start to formulate the incentive plan for teaching information construction, and comprehensively promote the intellectualization of teaching classroom, diversification of teaching forms and diversification of teaching methods.

Deepen the integration of information and teaching, and regularly organize and carry out "Internet + Courses", "Internet + Teaching" "+ learning's teaching informatization reform training and other activities, introduced the network teaching platform, guided nearly 500 teachers to carry out new

classroom teaching, promoted the reform of classroom teaching contents and methods, and reshaped the classroom teaching ecology. Through the use of specific cloud teaching platform software, create intelligent classroom and create personalized, autonomous and cooperative teaching mode and culture.

3.4. Building the "foundation of the platform": focus on resource sharing and build a platform for education and development

For schools, the landing and implementation of their functions of serving and promoting teacher development depend on the construction and improvement of relevant platforms. Diversified and systematic platforms will provide basic support for teachers' growth.

In particular, during the epidemic prevention and control period, our school vigorously promoted the online teaching platform. Now, the number of courses, the number of online teaching teachers and the activity of online courses have greatly increased, as shown in Figure 1.
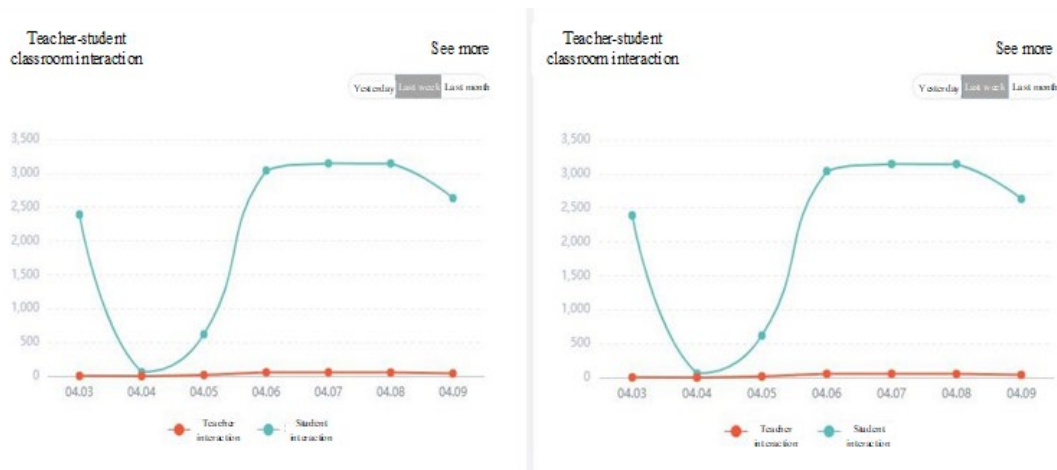

Figure 1: Teacher student visits and classroom interactions on the teaching platform

4. Establish the training system of informatization core competence of college teachers

4.1. The school has established the training mode of "step-by-step and supporting training" in close cooperation with relevant teaching departments

Effectively rely on the teaching reform, curriculum construction, teaching competition and other activities carried out by our school, cooperate closely, set up supporting training services, and build a training mode of "walking in unison and supporting training". The content and schedule of training are fully linked to the project application [4]. It is proposed that participation in training is a necessary condition for the application of projects and other teaching activities, which not only meets the needs of teachers, improves teachers' ability, but also plays a certain role in promoting the information work.

4.2. Build an information-based teaching and training system according to the characteristics of application-oriented undergraduates and schools and teachers' knowledge structure

According to the characteristics of Local Application-oriented Undergraduates and the school situation of our university, teachers are classified according to their age structure and cultural structure, and information-based teaching and training modules matching their curriculum teaching requirements and teachers' basic quality are carried out. The information-based teaching ability is divided into four levels from different dimensions such as QQ, wechat, online teaching platform, curriculum center, wechat and Mu class resources, meeting the requirements of age group Teachers with different knowledge structures should meet their practical needs and avoid one size fits all.

4.3. According to the characteristics of secondary colleges, formulate personalized training programs to improve training quality

Combined with the complex characteristics of the school's disciplines, the secondary college shall

formulate the information-based teaching needs of the college in combination with the discipline characteristics, teacher composition, student structure and other actual conditions of the college, according to the idea of "one college, one policy, one lesson and one case", and then formulate the information-based teaching training scheme and implementation steps according to the specific needs, and regularly conduct special training for different colleges, It greatly improves the use and achievement of teachers after training, and the training effect has the greatest benefit.

4.4. Establish an incentive mechanism for outstanding teachers to play a leading role in teaching reform

Establish and improve the cultivation mechanism of famous teachers, and issue corresponding selection and cultivation implementation plans. We will improve the teaching reward mechanism, improve the reward system for famous teachers, and encourage teachers to love teaching, devote themselves to teaching, study teaching, and devote themselves to teaching and educating people. Encourage teachers to participate in national, provincial and school level lecture competitions, micro class competitions, excellent lecturers, selection of famous teaching teachers, etc., so as to internally stimulate teachers' investment and love of teaching; By improving the weight of teaching performance in Teachers' year-end assessment, professional title evaluation and post competition, combined with the demonstration effect of famous teachers and excellent lecturers, actively guide teachers to invest in teaching reform research and strictly control the "quality" of teaching.

5. Conclusion

In today's information age, the cultivation of teachers' core ability of information-based teaching is the top priority of school teachers' training. We need to build a professional, institutionalized and normalized teacher teaching development system, establish a new mechanism for teacher teaching development through top-level design, overall planning and collaborative linkage, and carry out teacher development activities such as new teacher skill training, on-the-job teacher training, online training, famous teacher lecture hall, teaching salon, teacher competition and open class, so as to promote the professional development of teachers in an all-round way, Comprehensively improve our teachers' information-based teaching ability.

Acknowledgements

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