The Research on the Development Strategy of College Teachers' Informatization Teaching Ability

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Keywords: Universities, Teachers, Informatization, Teaching, Ability development

Abstract: In this new era of informatization, an important criterion for measuring the teaching level of teachers is informatization teaching ability. This article starts to discuss this, first briefly describes the main characteristics of informatization teaching, and then analyzes the current status of informatization teaching in China. From a variety of perspectives to improve the teacher's informatization teaching strategy. It aims to provide a certain reference for promoting the development of informatization teaching, and is used in the actual teaching process to improve the teaching level.

1. Introduction

As far as the current situation of informatization teaching in China is concerned, the situation is not optimistic. People have already learned about informatization teaching. The vast majority of teachers have participated in the training on informatization teaching. Although they have gained something, they cannot use it freely in the actual teaching process [1]. There are still major problems, knowing that, doing less with less. What's more, some schools simply hire professional information technology personnel to teach, but due to the limitations of teaching experience, far from the expected teaching effect.

The field of modern education is gradually integrated with Internet technology. This kind of reform can promote the further improvement of teaching quality. Universities should actively face the problems in informatization teaching and promote the improvement of teachers' informatization teaching level. Education informatization is an inevitable result of the development of the entire education industry. Improving the teaching model and content with the times can stimulate the enthusiasm of college students and improve the quality of teaching [1].

2. Characteristics of Information-Based Teaching

First, information-based teaching focuses on cultivating students' innovative spirit and practical ability. It can vividly display the large amount of information and relatively abstract content in the subject, and has rich teaching resources to improve students' abilities in all aspects [2].

Secondly, informatization teaching advocates three new learning modes, namely inquiry-based learning mode, cooperative learning mode and resource-based learning mode, and focuses on the cultivation of students' independent inquiry ability, cooperative ability, information collection and information processing ability, comprehensive Improve students' comprehensive literacy.

Third, to change the role of teachers, under the background of informatization teaching, it is necessary to redesign the teaching process and teaching goals in the traditional teaching mode, and spend more energy to collect more suitable informatization teaching resources also need to be changed correspondingly to the teaching evaluation process, and information-based teaching requires teachers to improve their professional abilities. In general, it is an opportunity for teachers to improve their comprehensive qualities [2].

Fourth, to achieve the high efficiency of teaching, through the application of information technology, such as Mu class and micro class, it is possible to highlight the difficulties and difficulties of teaching in the form of short video, and unlimited return visits; interactive whiteboards can enable human-machine, teachers and students.
3. The Importance of Information-Based Teaching

3.1 Meet the Needs of Students' Personalized Development

With the development of social economy, today's college students are pursuing more individualized development. Informatized teaching methods can promote the basic needs of students' individualization. Under the network mode, college classrooms are more modern, with students as the main body of teaching, and emphasis on individualized development of students. The application of information-based teaching methods in college teaching has changed the psychological and behavioral patterns of contemporary college students, and can quickly receive new things, satisfying the students' rich desire for knowledge. The traditional teaching mode only uses the blackboard for writing on the blackboard [3]. This teaching method limits the students' enthusiasm for learning and is not conducive to the improvement of students' comprehensive learning ability.

3.2 The Need to Cultivate Innovative Talents in the New Era

College teachers' information-based teaching can provide innovative talents for contemporary society. College teachers take on the important task of teaching in the context of the information age, and cultivate a group of practical talents with more modern characteristics for the society. In order to improve teaching competitiveness, colleges and universities need to pay attention to the cultivation of innovative talents fundamentally, implement effective teaching for college students with the times, and help talents realize greater self-worth [4]. Informatization education in colleges and universities provides students with a more personalized space, which can stimulate more students' own potential, exert students' more subjective initiative, and create personal value for the society.

3.3 Teachers' Own Development and School Development Needs

Informatization teaching in colleges and universities requires teachers to have more professional abilities, to be able to innovate teaching models in teaching, improve traditional teaching methods and content, and to optimize and upgrade the knowledge structure. Informatization teaching is an inevitable demand for teachers and universities to develop under the background of “Internet +”. Only by actively improving informatization teaching technology in the teaching process can the effective improvement of teaching quality be guaranteed [3]. The implementation of informatization teaching in colleges and universities can not only reduce the workload of teachers, but also improve the quality of teaching, help improve the quality of students' learning, promote the development of college education as a whole in the direction of informatization, and promote the long-term survival of colleges and universities.

4. The Current Situation of College Teachers' Information Teaching

According to the relevant surveys of college teachers’ awareness of information-based teaching, teachers’ agreement on the positive role of information technology in teaching accounts for 95.7%. Teachers’ vivid teaching content and flexible teaching methods for information technology can increase students’ interest in learning and improve teaching. The recognition rates of the four aspects of efficiency and promotion of teaching model change are 94.1%, 70.2%, 34% and 5%, respectively. The results of this data indicate that college teachers generally agree that information technology plays a positive role in teaching [2]. However, the current application of information technology by teachers generally stays in the form of simple PPT projections. Classroom teaching is still mainly based on lectures. The forms of micro-classes, mu-classes, and open classes in the Internet + era have not been widely used.

4.1 College Teachers Do Not Fully Understand the Role of Informatization

As far as the informatization literacy of college teachers is concerned, although teachers have a certain understanding of informatization, they do not fully understand the more in-depth and detailed content [5]. Since modern information technology has been popularized, teachers have long heard, but the understanding of informatization is still on the basic surface, but the specific meaning and
development trend of “Internet +” are ambiguous.

4.2 The Requirements of College Teachers for the Cultivation of Information Quality Are Not Accurate

College students are hardly interested in traditional teaching methods. Most college students are only children with strong personality factors, which puts more pressure on teachers' teaching guidance. Under the background of modern informatization, students are not interested in the traditional teaching model. It is difficult to really conduct in-depth learning in the classroom. The situation of playing mobile phones in the classroom sometimes occurs, which cannot promote the improvement of teaching quality [1]. At present, college students are more interested in multimedia-based teaching models, and college students are more interested in multimedia interactive courses than traditional classrooms. This shows that the information-based teaching model can stimulate students' interest in learning and improve teaching effects [3]. At this stage, there are still many problems to be solved in the information-based teaching model, which need to be explored and improved in teaching practice.

4.3 The Informatization Level of College Teachers Varies

At present, the qualifications and grades of teachers in colleges and universities are different. Teachers' acceptance of informatization-related training is also uneven. This leads to the limited informatization capabilities of teachers in the teaching process, which affects the quality of teaching [4]. The ability of relatively young teachers in universities to accept new things will be faster, and the level of informatization teaching will be higher, while the level of informatization teaching for older teachers is slightly weaker.

4.4 College Teachers Pay Less Attention to the Improvement of Information Quality

At present, teachers in colleges and universities still have more traditional ideas in the teaching process, and they have not put the improvement of their own information quality in the first place, resulting in poor enthusiasm for college students. Traditional teaching content and models can not meet the learning needs of modern students. It is difficult for students to concentrate on listening in the classroom, resulting in a decline in the quality of students' learning and affecting the quality of teaching. University teachers do not seem to realize the seriousness of this phenomenon [5]. Therefore, many older teachers are not willing to actively learn information-based teaching methods, resulting in unsatisfactory teaching results.

5. Influential Factors of College Teachers' Informatization Teaching Ability

5.1 External Factors

College teachers' informatization teaching ability is limited. In terms of external factors, colleges and universities do not provide a better information technology resource platform and related technical guidance, resulting in a very limited teacher's informatization ability. Although colleges and universities have gradually introduced informatization-related facilities into teaching, they lack in-depth implementation and guidance. Teachers cannot really learn informatization knowledge, which affects the comprehensive ability and level of teaching. The speed of development of informatization teaching degree in colleges and universities is relatively slow, and an informatization teaching environment has not been formed. It is difficult for students to integrate into the informatization learning mode, which limits the learning effect of students [6].

5.2 Personal Factors of Teachers

Teachers' personal informatization teaching ability is also affected by their own factors. Because teachers have different levels of knowledge and teaching, they have different influences on informatization teaching thoughts. Teachers who have received training in information systems are usually better able to carry out information-based teaching [7]. They are more accustomed to using advanced teaching methods, while some teachers are less affected by information technology, and the
teaching methods still follow the traditional teaching model. Teachers play an important role in the process of informatization in colleges and universities. Teaching habits and informatization teaching ability complement each other. If teachers themselves are not good at using computerized teaching equipment and related resources, it is difficult to fundamentally improve informatization teaching ability.

6. Strategies for Improving the Information-Based Teaching Ability of College Teachers

6.1 Transform Teachers' Ideas

With the integration of the Internet and education, college teachers should change the traditional teaching concept and fundamentally recognize the effectiveness of information-based teaching in order to promote the improvement of teaching quality. The teaching concept of teachers directly affects the development of the overall informationization in colleges and universities. We should start with the teaching concept of teachers and pay attention to the penetration and application of information technology to ensure that teachers use informational methods in teaching effectively. Teachers continue to strengthen their informatization teaching ability, which can realize the good development of teachers' profession and promote the comprehensive improvement of teachers' level [6]. Colleges and universities can invite professionals with high-quality information technology capabilities to come to colleges and universities to give lectures, correct teachers' awareness of the limitations of information technology, and strengthen teachers' information level and personal comprehensive ability.

6.2 Improve Teacher Evaluation System

In order to promote the effective integration of “Internet + Education” and teaching, we must first pay attention to the deepening reform of the teacher evaluation system, the promotion of teacher evaluation, and the promotion of teachers' information teaching initiative. Universities should scientifically optimize teacher evaluation standards, include informatization teaching, urge teachers to improve the teaching ability of information prices, and use objective teacher evaluation to encourage teachers to continuously improve informatization levels. Colleges and universities should make effective use of the teacher evaluation system to enable teachers to actively invest in information-based teaching, improve traditional teaching methods, and improve teachers' comprehensive level of information-based teaching [7].

6.3 Improve the Teacher Training System

Under the background of “Internet + education”, colleges and universities should pay attention to effective informatization training for teachers, improve teachers' informatization teaching ability, and stimulate students' interest in learning. According to the actual situation of teachers in schools, colleges and universities should regularly arrange corresponding information-related courses for teachers, enrich teachers' information-based knowledge system, and keep up with the needs of teaching in the era, in order to fundamentally improve teachers' teaching quality [8]. The informatization training courses in colleges and universities should be oriented to all teachers to ensure that each teacher can obtain the improvement of informatization level, improve their teaching thinking and methods, improve the comprehensive quality of informatization, and promote the effective advancement of the teaching informatization process in colleges and universities.

6.4 Organizing Teaching Seminars

Organizing regular teaching seminars has important practical significance for improving teachers' abilities. Through seminars, teachers can summarize and communicate the problems that arise in teaching practice, on the one hand, it is helpful to solve problems efficiently, and on the other hand, it can also warn other teachers that they will no longer enter the same misunderstanding [7]. In the context of the “Internet +” era, different teachers have different understandings of the application of information technology. How to introduce information technology in teaching practice is an important topic worth discussing. What types of teaching content are involved in teaching practice
can introduce information technology means, and when is the time to introduce? What type of teaching content is inappropriate for excessive use of information technology? For example: more abstract spatial concepts can be demonstrated using multimedia, and the more theoretical derivation content is more suitable for teaching by way of blackboard deduction, which is more conducive to guiding students to think [8].

7. Summary

To sum up, the traditional teaching mode of colleges and universities can no longer meet the needs of modernization, and has higher expectations for the “Internet + education” technology. It should pay attention to the training and guidance of teachers’ informatization ability, and improve teachers’ informatization teaching ability. Ensure the improvement of the overall competitiveness of colleges and universities. University teachers should integrate information technology and teaching courses organically, optimize the standards of the teaching evaluation system, create a good environment for teachers to carry out information-based teaching, and then promote teachers to better complete their teaching goals.

Acknowledgement

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