Retraction

Retraction: Research on the Application Analysis of Four-dimensional Teaching Method in Higher Vocational English Teaching Based on Big Data Analysis (J. Phys.: Conf. Ser. 1744 032059)

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This article has been retracted by IOP Publishing following an allegation that raises concerns this article may have been created, manipulated, and/or sold by a commercial entity. In addition, IOP Publishing has seen no evidence that reliable peer review was conducted on this article, despite the clear standards expected of and communicated to conference organisers.

The authors of the article have been given opportunity to present evidence that they were the original and genuine creators of the work, however at the time of publication of this notice, IOP Publishing has not received any response. IOP Publishing has analysed the article and agrees there are enough indicators to cause serious doubts over the legitimacy of the work and agree this article should be retracted. The authors are encouraged to contact IOP Publishing Limited if they have any comments on this retraction.

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Research on the Application Analysis of Four-dimensional Teaching Method in Higher Vocational English Teaching Based on Big Data Analysis

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Abstract. In order to train English talents better, in the process of English teaching in higher vocational colleges, it is necessary to reform its teaching mode constantly so as to promote the quality of English teaching. However, according to the analysis of big data, in the current situation, there are still many problems in English teaching in China, so we should make full use of the advantages of four-dimensional teaching method to improve the current difficulties in English teaching. Therefore, this article is mainly to explore four-dimensional teaching methods based on the current problems in English teaching of higher vocational education, and with a view to providing reference for the follow-up English teaching.

Keywords: Four-dimensional Teaching Method, Higher Vocational English, Teaching Application, Big Data Analysis

1. Introduction
With the continuous reform and development of the current educational system, the society has also put forward higher requirements for the educational level of English in higher vocational colleges. Therefore, in the process of teaching, higher vocational colleges should speed up the pace of reforming the teaching mode to better the training of English talents, and to better meet the needs of the development of modern society. However, there are still many deficiencies in the current English teaching process, so in order to better solve the existing problems, it is necessary to introduce new teaching methods to improve the overall quality of teaching. Four-dimensional teaching method is the product of educational reform and development, and its advantages can better meet the needs of higher vocational students in English learning.

2. Current situations of English teaching in higher vocational colleges
As higher vocational colleges are more to train technical personnel, so in the construction of English teaching staff, there is still a lack of efforts. Many English teachers in higher vocational colleges do not fully realize the importance of English education for students’ development, and even neglect that the teaching of basic English will seriously affect students’ future career development planning. Secondly, teachers are not aware of the innovation of English teaching mode, and they still adopt the traditional cramming teaching method, which will affect students’ enthusiasm of listening and
speaking and be harmful for the cultivation of students’ independent thinking ability. The following figure is a sketch map of the current situation of English teaching.

![Figure 1. A sketch of the current situation of English teaching.](image)

In addition, for the students who are educated, because their original English foundation is relatively weak, they will face greater difficulties in the process of learning English. It is easy to make students feel bored with English, which affects the efficiency and quality of English learning. There are many vocational college students who is under the open campus environment but they lack self-control, which is difficult to persevere in English learning, resulting in the weakness of grades in English.

Finally, many higher vocational colleges do not have complete teaching facilities, which makes it hard for English teachers to use modern network equipment to explain the contents of English teaching, thus forming a purely theoretical teaching mode. This will affect the enthusiasm of students in learning English, and even produce resistance or boredom, which will be detrimental to the development of English teaching.

3. Strategies of optimizing English teaching quality with three-dimensional teaching method

3.1. Using four-dimensional teaching method to innovate English teaching model

The traditional English teaching mode is mainly based on teachers’ explanation and exercises consolidation, because the traditional teaching mode restricts students’ thinking direction. At the same time, the defects of the traditional teaching plan also reduce the overall teaching efficiency. The new English classroom teaching mode will integrate more knowledge systems, forming a complete knowledge system, and strengthening the relationship between knowledge. For example, it learns from English vocabulary learning to sentence learning, from simple sentences to attributive clauses and other complex sentence learning. Through the knowledge of mutual coherence, it makes students in the process of exploration improve the learning interest. Secondly, the four-dimensional teaching method has a high degree of flexibility. Different forms of teaching methods will stimulate students’ curiosity, and it can make students keep up with the pace of the classroom, and focus more. For example, it improves the ability of English expression by interacting with students in class and the discussing with students. This not only promotes students’ achievements, but also cultivate their innovative thinking and improve their enthusiasm for long-term English learning. Applying the four-dimensional teaching method to innovate English teaching mode is not only a change of the traditional teaching mode, but also a great progress in the field of education.

3.2. Speed up the construction of English teachers to meet the requirements of teaching ability in modern higher education

In the current higher vocational education, the comprehensive quality of English teachers will have a direct impact on the quality of teaching. So while applying the four-dimensional teaching method, it is also necessary to improve the professional competence of English teachers. In this process, the school
must carry on the specialized training for the English teacher, thus it can enhance its teaching ability. Secondly, it is required to use modern network technology to simplify the workload of teaching and increase the frequency of academic exchanges and professional training. So teachers can become high-tech applied talents who are in line with the development needs of modern society. In the specific teaching practice, they accumulate teaching experience, improve their own teaching level to achieve the optimization of teaching effect. In addition, it is necessary to train double-qualified English teachers actively, and use the combination of Chinese and English in the teaching process, which thus improves students’ English listening ability. So students can imperceptibly improve the ability of perception of English, stimulate the enthusiasm of learning English to better implement vocational English teaching objectives.

3.3. Continuous improvement of 4D English teaching method in after-school tasks

It is obviously insufficient to teach knowledge only in the classroom. English teachers in higher vocational colleges should supplement students’ relevant knowledge in many aspects, expand students’ knowledge of English learning, and let students consolidate exercises on the basis of understanding the connotation of knowledge, and thus improving their ability to apply knowledge. At the same time, the difficulty of the exercises should also have a certain class nature. When the students can achieve more than 80% correct rate in the basic exercises, we should raise the difficulty of the exercises so as to develop their thinking ability. At the same time, it can promote the process of applying the four-dimensional teaching method in English class. The following figure is a four-dimensional teaching method optimization strategy map.

**Four-dimensional teaching method optimization strategy**

- English teaching mode innovation
- Speed up the construction of English teachers
- Optimize task after-class arrangement

**Figure 2.** optimization strategy of four-dimensional teaching method.

In addition, teachers can also set up a learning group, and let the group members to design their own learning programs in line with their inner needs, so as to improve classroom teaching efficiency. Teachers should guide, not only to make the guidance program more reasonable, but also to reduce the distance between teachers and students, and to promote communication between them. Moreover, while teachers attach importance to pre-class preview and classroom teaching, they should not neglect the consolidation of after-class knowledge. After a chapter of the teaching plan, they can send the tutorial program to QQ Group for students to check and review. Accordingly, more typical English problems are put forward to help students think deeply and improve their English problem-solving ability. In fact, students can improve their interest in English learning by thinking on their own, thus they can experience the charm of language. The application of four-dimensional teaching method to English teaching in higher vocational colleges is actually a reform of the traditional English teaching method in higher vocational colleges, which can break the bottleneck of English teaching in higher vocational colleges and improve the ability of English practical application to better meet the development needs of society.

4. Conclusion

In a word, higher vocational education is more to cultivate skilled talents, so in the process of English teaching, it should not only strengthen its theoretical knowledge, but also increase the students’ ability to use English. According to the analysis of big data, under the background of the new era, the four-dimensional teaching method can better meet the needs of English teaching in higher vocational colleges. So in the process of application, we should give full play to its advantages, apply it to
English teaching, and improve students’ English learning enthusiasm, thus improving the quality of English learning.

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