Empirical Research on Teaching Effectiveness of Audiovisual-oral Course under the Environment of Computer Network

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Keywords: Computer Networks, Audiovisual-oral Teaching, Efficiency Research, Empirical.

Abstract: Educational reform should keep pace with the times, effectively combined with modern technology. Development of computer network technology has led to changes of teaching model and perfect combination with teaching. The improvement of the quality and efficiency of classroom teaching requires reasonable reforms in audiovisual-oral aspects, thus achieving fundamental enhancement of teaching efficiency. Therefore, empirical issues on the efficiency of audiovisual-oral classroom teaching were discussed in the work through the analysis on application of computer network technology in classrooms teaching.

1 INTRODUCTION

Education has always pursued high-quality education and effective teaching methods. However, influenced by traditional exam-oriented education, there are no appropriate teaching methods for improving education. In fact, the actual teaching efficiency has been affected by the instilling-style teaching methods and relatively boring teaching methods of traditional classroom teaching. Teacher is in the strong dominant position of teaching process while students are accustomed to passive listening mode. Therefore, new modern technology should be applied in classroom teaching to change the traditional teaching mode, improving the efficiency of classroom teaching. Computer technology also played a very important role in the education reform. In particular, computer network technology provides students with a new platform for exchanges and vision. Therefore, the work mainly analyzed the effectiveness of computer network technology on audiovisual-oral classroom teaching.

2 APPLICATION OF COMPUTER NETWORK TECHNOLOGY IN TEACHING

Computer technology has also been applied in teaching field with its development. Since the initial computer multimedia teaching, computer network teaching mode has begun to be implemented in the classroom teaching. Under the computer network environment, lots of changes have occurred in teaching mode and teaching efficiency, influencing the development of future classroom teaching. In order to ensure perfect application in teaching, computer technology should be more comprehensively applied in different disciplines. Currently, computer network technology is more applied in relevant majors of computer science, but it cannot actually be applied in all disciplines. Therefore, the application of computer network technology should be actively and vigorously promoted in multiple subject areas, ensuring the development and popularization of computer network environment, achieving real reform of education. The use of modern technology and standards is fundamental to improve the existing educational systems and status quo. Therefore, the key to radical improvement of education is to increase the application popularity of computer network technology. Only through the popularity of technology can education reform achieve further development. As a foundation of pursing high-efficiency class, the pursuit of high efficiency and quality can play the real meaning of education to a certain extent. The traditional classroom teaching has largely affected the actual teaching with its instilling and boring teaching method. Thorough reform from aspects of concept and form is

necessary to improve this situation, thus achieving new education system and teaching mode.

3 LACK OF AUDIOVISUAL-ORAL CLASSROOM TEACHING

There are many disadvantages in traditional teaching. Generally, traditional exam-oriented education is considered to be the inculcation education with the teacher as subject. Thus, students do not have space for initiative or thinking, affecting the efficiency of teaching. So, what are the main problems in terms of the traditional classroom teaching?

3.1 Serious Lack of Communication in Teaching Classroom

Since the formation and development of examination-oriented education, more and more students are accustomed to listening to teachers' lecture, without initiative and space of thought. Such problems have resulted in insufficient exchange in classroom teaching, thus directly affecting the learning initiative of students. Therefore, the lack of communication has greatly influenced the efficiency and quality of teaching. Teachers cannot know the learning situation of students due to the lack of communication and interaction in teaching process. Students more get used to accepting teachers' teaching content to master the so-called knowledge, and few students will seek its principles. However, knowledge learning actually requires practical use. Many students lack appropriate thinking skills in learning process due to little opportunity for interaction and communication, thus resulting in long-term thinking inertia. Meanwhile, teachers are also more willing to make students more quickly accept new knowledge through teaching methods of indoctrination. However, such methods are unscientific and ineffective.

3.2 Lack of Visual Impact in Classroom Teaching

Visual impact refers to that people will have the driving force to generate interest at first senses, thus achieving a real sense of good learning. But in terms of traditional classroom teaching, blackboard and chalks are only carriers that student face, which are elements making students feel bored from the

perspective of aesthetic and sensory. Thus, purposes of efficient classroom cannot be achieved. Traditional classroom teaching lacks appropriate incentives, resulting in a downturn atmosphere of teaching, and this problem has not been resolved. After the introduction of computer multimedia teaching, this phenomenon has been eased and improved, achieving the improvement of atmosphere and efficiency of teaching classroom.

4 EMPIRICAL ANALYSIS ON EFFICIENCY OF AUDIOVISUAL-ORAL CLASSROOM TEACHING UNDER COMPUTER NETWORK ENVIRONMENT

With the continual improvement of modern teaching environment, computer multimedia and networks began to enter classrooms, which largely changed the traditional teaching environment. Thus, how to achieve the efficiency of audiovisual-oral classroom teaching under computer network environment?

4.1 Visual Effects under Computer Network Environment

Classrooms are equipped with network resources under computer networks environment, thus widely broadening teaching content and teaching reference, achieving real visual teaching mode. Generally, computer multimedia is the first to enter teaching classroom, largely changing traditional teaching model. Computer network environment possesses some drawbacks relative to multimedia. Computer multimedia just requires the support of hardware. However, the use cost of computer network environment is relatively high, thus bringing difficulty in its popularity process, causing unfairness of resource utilization. Thus, computer networks were more used in lab classes within computer majors in initial time, rarely used in classroom teaching. However, under computer network environment with more abundant resources, lots of related teaching content can be achieved through computer networks with high efficiency. Therefore, computer network environment has been gradually applied to the classroom for better teaching, effectively achieving the improvement of teaching efficiency. Then, how is visual effect reflected in computer network environment?

Firstly, computer is equipped with network search function under computer network environment, thus many problems in classrooms can be solved through the search of network environment. Thus, teacher's words and explanation can be substituted by visual presentation. For example, in explaining the mechanics of stress analysis, stress effect analysis is relatively abstract which cannot be explained by rational speech. Despite of good skills of teachers, students cannot learn the true meaning of its contents. Therefore, the presentation functionality of computer networks can be used to make abstract issues concrete. Stress analysis can be made in flash animation on display, thus directly bringing visual impact for students, which is easier for students' understanding.

Secondly, visual performance is achieved through the rendering and stimulation of senses. In some literary subjects, many contents are vivid. However, the vivid picture cannot be truly reflected just by reading the text or the teacher's explanations. Therefore, the use of video teaching mode under network environment allows students to directly experience the described screen of text. This visual teaching and visual impact, with a sound teaching atmosphere, makes students feel shocked in visual sense at first impression, thus realizing actual video teaching mode.

Finally, the manifestation of visual effectiveness makes students become interested in teaching content. Interest teaching is the largest deficiency of traditional teaching—students' only purpose in learning is to get scores. However, capacity is the most important rather than scores, thus students should be promoted to have learning motivation and interest. Traditional teaching mode is boring and tedious without interest. In contrast, the teaching mode under computer network environment can perfectly solve this problem. Visual impact is the most direct and intense in all senses. Students' interest in learning can be enhanced through the visual teaching model under computer network environment, thus achieving the purpose of efficient learning through direct teaching model. Therefore, the implementation of visual efficiency makes students get rid of traditional teaching haze and have learning in the enormous visual impact, thus achieving efficiency of classroom teaching.

4.2 Auditory Effects under Computer Network Environment

In traditional teaching, teachers' voice will directly affect the students' interest in learning and its efficiency. However, their tones are difficult to be corrected, thus students have to accept it no matter students love it or not. Therefore, students have no choice in many cases, resulting in a relatively default mode of teaching. Actually, the teaching mode can be fully changed through the reform under computer network environment. As the second human sense, auditory sense largely determines the ability to accept new things. Under computer network environment, audio-style teaching can be used in classroom. The needed tone and voice can be searched through computer network, allowing students to learn in timbre and sound within the range of adaptation. Voice teaching should be properly applied in the classroom teaching under computer network environment, making students' auditory sense join the learning activities, thus improving the efficiency of teaching.

4.3 Communication Effects under Computer Network Environment

The largest defect of traditional teaching model is the strong subjectivity of teachers in classroom. Originally for formal teaching mode, teacher's role is a guider rather than the subject. However, the status of teachers in teaching becomes higher in the exam-oriented education with indoctrination. They allow students to pursue scores and acquire knowledge as soon as possible, thus students were turned into passive receivers. The biggest drawback of this teaching method is that students have no space for thinking. Students lack learning enthusiasm due to teachers' indoctrination explanation and the lack of interaction opportunity. Therefore, teaching has become indoctrination and passive receiving, which completely violates the original purpose of education. For teaching classroom under computer network environment, this model can be fundamentally improved. Exchanges and interaction are essential for students in learning process. Therefore, students should be provided with opportunity for exchange and interaction under computer network environment, creating lively atmosphere for their learning, making the learning much more interesting. This is exactly the efficiency demonstration under computer network environment. Actually, classroom teaching under computer network environment will be more effective, better achieving quality and efficiency of teaching.

5 CONCLUSIONS

The application of computer network technology in teaching was analyzed from comprehensive aspects including visual sense, auditory sense and exchange interaction. The use of computer network technology and computer networks formed in classroom environment can largely improve the teaching efficiency. In conclusion, education reform should start from application of technical means, bringing more modern technology into classrooms, thus solving the problem fundamentally. Therefore, new modern technology is required to be applied in classroom to change the traditional teaching mode, improving the efficiency of classroom teaching.

ACKNOWLEDGEMENTS

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