



ISBN: 978-1-948012-15-7

Asia-SAME Transactions on Engineering Sciences, ISSN: 2377-8970

<https://doi.org/10.7508/aste.01.2020.38.43>

The Integration Mechanism of Multimedia Computer Technology and College English Teaching

Jing Wang

Southampton International College, Dalian Polytechnic University, Dalian 116000, China

*Corresponding author: dlili20052005@163.com

From 2020 International Conference on Engineering Research, Beijing, China. 12-14 April 2020, Organized by University of Science and Technology Beijing and International Association of Management Science and Engineering Technology (IAMSET).

Abstract: The rapid rise of multimedia computer technology has accelerated the process of college English teaching reform. With the wide application of information technology, educational methods in universities are becoming more and more diversified and efficient. The combination of modern information technology and English teaching also has a good prospect. Because classroom multimedia computer-assisted instruction is cheaper and easier to operate than network multimedia computer-assisted instruction, many colleges and universities use classroom multimedia computer-assisted instruction in English classes. Multimedia English teaching has been widely used in Colleges and universities. The deepening of College English teaching reform calls for the involvement of multimedia computer technology in English teaching. This paper mainly expounds the advantages and existing problems of multimedia computer-aided English teaching, and puts forward some reasonable suggestions on the use of classroom multimedia computer-aided English teaching.

Keywords: Multimedia, computers, English teaching.

Introduction

Colleges and universities should make full use of modern information technology, adopt the English teaching mode based on computer multimedia, and improve the single teaching mode dominated by teachers [1]. Multimedia teaching refers to a new educational technology that reasonably selects and uses modern teaching media according to the teaching objectives and the characteristics of teaching objects, and comprehensively processes various media information such as sound, text, graphics, images, animation and the like through computers in the teaching process [2]. Nowadays, all subjects have to keep up with the tide of informatization, and so does college English education. Accelerating the pace of informatization in college English teaching is conducive to better improving college students' English level and

improving our ability to connect with the international community [3]. Hybrid teaching combines the advantages of traditional learning methods with modern media learning methods such as the Internet, integrating teaching and information technology. Curriculum requirements emphasize the use of multimedia computer technology to create a realistic language learning environment for students [4]. Multimedia comprehensive classroom refers to a multimedia computer and corresponding information presentation equipment equipped in the ordinary classroom, thus forming a well-equipped multimedia information playing system. Because classroom multimedia computer-assisted instruction is cheaper and easier to operate than network multimedia computer-assisted instruction, many colleges and universities use classroom multimedia computer-assisted instruction in English classes [5]. The new teaching mode should be supported by modern information technology, especially network technology, so that the teaching and learning of English can't be limited by time and place to some extent. The teaching reform emphasizes that in addition to the traditional face-to-face teaching, the introduction of network-based teaching, integration of multimedia computers and traditional classroom.

Multimedia computer technology assisted college English teaching

Implications of assisting college English teaching

Multimedia-assisted college English teaching refers to the storage, processing and dissemination of information on English teaching and learning through the comprehensive utilization of various multimedia and technologies, so as to achieve the optimization of English teaching and learning. When it comes to the application of multimedia technology in teaching, the first impression people get is a classroom, a computer, curtains and projectors. In college English teaching, the use of multimedia computer technology can effectively provide students with resources and means of autonomous learning, so that students can truly become masters of learning, improve their learning efficiency and enthusiasm, and ensure the quality of English learning. Multimedia-assisted English teaching is based on the theory of subject education [6]. According to the theory, educational activities are special cognitive and practical activities, and teachers and students are the main body of the activities. Constructivist theory holds that in the process of learning a language, such as English, the individual learning the language is the core of the whole process. We must communicate with each other as much as possible when learning languages. Teachers will play a very important role in this process. As for the definition of multimedia, it is generally considered to be a set of hardware and software devices that combine various visual and auditory media. Users can access various learning resources from network computers. With multimedia computer technology, we can communicate with people on the Internet, even with native speakers of English, which has twice the result with half the effort for English learning. The lack of English

teachers' multimedia application skills restricts the popularization of multimedia teaching and the development of multi-level, multi-form and multi-specification. Only by combining technology and language level can the best effect of multimedia technology be truly brought into play [7]. Multimedia-assisted English teaching enables learners to construct their own understanding by recognizing, processing and coding new information through the existing cognitive structure in the acquisition process. In the process of active construction of English learning, learners cannot be replaced by others.

The current situation of assisting college English teaching

Multimedia-assisted English teaching lies in the multi-dimensionality, integration and interaction of multimedia technology. It is imperative to train English teachers in the application of multimedia technology, so that they can become the backbone of using multimedia education information technology to assist English teaching and make the majority of students become beneficiaries. English teaching in colleges and universities has a long-term and specific goal, which is to cultivate students' theoretical knowledge and practical application ability in English, especially in listening and speaking, and to enhance students' learning enthusiasm and autonomy. The rapid development of computer technology makes English learning software more and more interactive. However, due to the limitations in analyzing and synthesizing human languages, the interaction in multimedia English teaching is limited to man-machine dialogue and man-machine communication. Multimedia interactive teaching multimedia interactive teaching is more advanced and perfect than multimedia projection teaching. Its foundation is based on computer localization network teaching. Teachers and students can communicate and interact on the network platform [8]. With multimedia computer technology, students no longer have to worry about finding information when they study. They can get the results they want by turning on the multimedia computer and logging in to search engines or related websites. The application of multimedia computer technology in English teaching will greatly shorten teachers' teaching time, improve teaching efficiency, activate students' desire for knowledge and enhance students' thinking creativity. It is the best choice for foreign language teaching in the future.

The integration of multimedia computer technology and college English teaching

With the intervention of multimedia computer-aided English teaching, the reform of English teaching in colleges and universities in China is pushing forward the reform in depth. Although there are still some teaching defects, its teaching advantages are obvious. Computer automation management is the inevitable development trend of book management, but it also needs to be implemented step by step. Therefore, we should actively promote the innovation and reform of the management system, change the traditional

management system, speed up the reform and innovation of computer technology, and promote the expansion of the scope of computer application. No matter how advanced the technology is, it cannot completely replace the role of teachers in teaching. On the contrary, the role of teachers is even more important. Teachers can use multimedia technology to organically combine teaching materials, information resources and students to realize the re-creation of teaching. The use of multimedia computer software enables students to choose what they want to learn and what exercises are suitable for their level according to their knowledge base and level and interest in learning, thus mobilizing students' internal needs. Faced with numerous information resources and multimedia computer technology media, teachers should study and discuss how to determine teaching objectives, how to mobilize the enthusiasm of students, how to integrate themselves with students, how to create an effective learning environment, and how to guide students to complete the reorganization and construction of knowledge.

In today's information age, multimedia computer technology is used to assist English teaching. English teaching contents are presented to students in various forms such as sounds, pictures, images, etc., forming sensory stimulation and producing diversified effects. The quality of management software directly affects the operation of all aspects of computer system management software, so the selection of software must be carefully done. In book management, the research and development and manufacture of its computer automation system management software are difficult to achieve in place at one time, but they can be improved gradually to meet the real needs of book management [9]. Multimedia computer-assisted English teaching adopts man-machine combination teaching, which can transform the traditional teacher-oriented knowledge teaching mode into student-centered ability training teaching mode. When selecting management software, market research can be conducted first, giving priority to R & D providers with good reputation, strong technology and in-place after-sales service. In daily English teaching, students occupy the dominant position, teachers occupy the dominant position, students are the main body of learning activities, teachers are the main body of teaching activities, the two are interrelated, interdependent and independent of each other [10].

Conclusion

Multimedia computer aided college English teaching is the demand of modern education and the development of the times. It represents the general trend of college English teaching reform and causes new changes in college English teaching mode. The communication between multimedia computer technology and college English education is beneficial. Although classroom multimedia computer-assisted English teaching has its unique advantages, it cannot be generalized. Improper use will lead to twice the result with half the effort. With the advancement of quality-oriented education and educational reform in colleges and universities, the integration of multimedia computer technology and curriculum teaching in colleges and

universities is in line with the current requirements of talent cultivation and social and economic development. Only in the actual teaching activities, continue to explore and summarize the experience and lessons, scientific and reasonable use of modern multimedia teaching technology, can we achieve the best teaching effect. Teachers can use multimedia technology to combine teaching materials, information resources and students organically to realize the re-creation of teaching. In College English teaching, teachers should correctly apply multimedia computing technology and select appropriate teaching information to carry out high-quality and efficient English teaching according to students' actual situation and specific teaching content.

Acknowledgements

This article is one of the achievements of the Liaoning Provincial Department of Education's 2019 scientific research funding project "Research on Poverty Alleviation in Liaoning higher education in the Background of Rural Rejuvenation" (J2019012). The achievement of Xinxin Rural Non-profit English organization; one of the achievements of the Dalian Polytechnic University innovation and entrepreneurship incubation base in 2019; one of the achievements of the 2018 Dalian Polytechnic University Academic Achievement Award for the project of "comprehensive measures to improve the ability of Chinese-foreign cooperative education in English language education"

References

- [1] Bai, Y. 2015. Research on autonomous learning ability based on network multimedia college English teaching model. *Youth*, (021): 149.
- [2] Mei, Z. 2014. Research on autonomous learning ability based on network multimedia college English teaching model. *Campus English*, (34): 38.
- [3] Luo, L.S. 2014. Research on autonomous learning ability based on network multimedia college English teaching model. *Journal of Jiamusi Vocational College*, (09): 242.
- [4] Cui, Y., He, M. 2014. On the role of multimedia in English teaching. *Motherland: Education Edition*, (08): 114-115.
- [5] Yan, L.S. 2018. Discussing the self-learning ability of students in network multimedia university English teaching. *Science and Technology Information*, 16 (15): 163-164.
- [6] Zhang, C.X. 2017. Multimedia makes English teaching more efficient. *Friends of Middle School English: A Study of Foreign Language Teaching Methods*.
- [7] Ou, J., Li, X., Ma, M.Y. 2015. Research on emotional factors in multimedia English teaching environment. *Teaching and Management*, (15): 95-98.
- [8] Wang, Y. 2014. Several common theories of multimedia university English teaching research. *China Educational Technology and Equipment*, (08): 117-118.
- [9] Chang, S.L. 2020. On the application of multimedia in English teaching. *Heihe Education*, (1): 22-23.

[10] Wei, X.M. 2010. Computer and communication engineering school of Weifang University Weifang, China. Hospital information system management and security maintenance. Intelligent information technology application research association, Hong Kong, Huazhong Normal University, China, Huazhong University of Science and Technology, China. Proceedings of 2010 International Conference on Bio-inspired Systems and Signal Processing (ICBSSP 2010), 110-112.