

Foreign Language Teaching Design Based on Information Technology

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Abstract—With the development of information technology and the application of big data, information technology has been widely used in foreign language teaching design. In recent years, China has further strengthened the construction of information technology in foreign language teaching practice and played a huge role in promoting foreign language teaching reform. However, there are still some problems that restrict the effect of application of information technology in foreign language teaching design. Based on the application background and current situation of information technology in foreign language teaching in China, this paper analyses the existing problems and puts forward corresponding countermeasures, which will provide new ideas for promoting the deep integration of information technology and foreign language teaching practice in China and promoting the formation of a smart foreign language teaching environment.

Keywords—foreign language teaching; information technology; teaching platform; teaching resources

I. INTRODUCTION

With the development of information technology and the application of big data, information technology has been widely applied in foreign language teaching design. In the process of actively promoting the "Internet +" action, China has further intensified its information construction in foreign language teaching practice, and information technology has also played a significant role in promoting the reform of foreign language teaching. Nevertheless, there are still some problems in the development of informatization in foreign language teaching in China, such as unbalanced educational resources, inadequate platform construction and imperfect service mechanism, which greatly restrict the effectiveness of the application of informatization technology in foreign language teaching design, and indirectly affect the reform and development of foreign language teaching in China. Based on the application background and current situation of foreign language teaching informatization technology in China, this paper has analyzed the problems of insufficient investment in informatization construction, imperfect management system, inadequate development and application of informatization platform, and teachers' weak ability of informatization teaching, and put forward some suggestions on renewing teaching ideas, improving the construction of teaching resources platform and improving teachers' Informatization literacy. The strategy will provide new ideas to promote the deep integration of information technology and foreign

language teaching in China, promote the formation of intelligent foreign language teaching environment, and promote the sustainable development of information-based foreign language teaching.

II. THE BACKGROUND OF INFORMATION TECHNOLOGY APPLICATION IN FOREIGN LANGUAGE TEACHING

The application of information technology in foreign language teaching is the need of the times, the development of foreign language teaching and the training of foreign language talents. With the development of information technology and the popularization of smart mobile terminals, information-based education has developed from multimedia teaching and distance education to "ubiquitous learning". The so-called "ubiquitous learning" means that any learner can carry out different learning activities in various ways at any time and anywhere, and "ubiquitous learning" can break the limitation of time and space in teaching to a great extent, meet individual learning needs, improve and stimulate learners' initiative and creativity, but also challenge the traditional teaching model [1]. In the 13th Five-year Plan of Education Informatization promulgated by the Ministry of Education in 2017, the working ideas and development plans of education informatization in China are clearly defined that it has put forward new requirements for the development of education informatization in various disciplines in China transforming from infrastructure construction to practical application and from single platform to system integration. How to apply information technology to improve teaching quality has become a hot topic in the field of scientific research and teaching practice [2]. Against the background of the development of educational informatization, as a widely used and practical subject, the development of foreign language teaching informatization is imperative.

Foreign language teaching is an important part of language teaching. In contemporary China, English is the main part of foreign language teaching. As early as the beginning of this century, the Ministry of Education of China clearly proposed that English-based foreign language teaching should adhere to the people-oriented teaching concept, make full use of modern information technology, change the traditional single classroom teaching mode, promote the combination of knowledge, practicability and interest in foreign language teaching, and promote the individualized development of foreign language teaching. In fact, it is helpful to mobilize the

enthusiasm of teachers and students to establish a teaching model of listening, speaking, reading and writing in foreign languages under the network environment, to realize the combination of online and offline teacher counseling, and to develop and effectively use various teaching resources. Thus, it can be seen that the full use of information technology in foreign language teaching is an indispensable part in the development of foreign language teaching, especially in the curriculum design of professional English and public English in colleges and universities.

Nowadays, with the development of globalization, the cultivation of foreign language talents and "foreign language + specialty" compound talents has become an important part in China's deepening reform and opening up, realizing national rejuvenation, and bringing Chinese people into the world and realizing cross-cultural communication. General Secretary Xi Jinping has clearly pointed out that the country should continue to train high-level foreign language talents, help China's foreign economic and trade cooperation and cultural exchanges, and apply information technology reasonably and scientifically in foreign language teaching design. It will not only enhance the effectiveness of foreign language talents training, but also gear our foreign language teaching to international standards against the background of information technology, and enhance foreign language talents' service to the development of Comprehensive ability of China.

III. APPLICATION OF INFORMATION TECHNOLOGY IN FOREIGN LANGUAGE TEACHING

Against the background of the continuous development of network information technology and foreign language teaching disciplines, the informatization construction of foreign language teaching in China, especially in colleges and universities, has advanced to a new level in the construction of hardware facilities, the optimization of network environment and the development of teaching resources. However, there are still some problems in teaching theory, platform application, classroom teaching and teachers' quality.

In the construction of hardware facilities, universities and educational and training institutions in China have invested a lot of money to construct the basic environment of information-based teaching, such as multimedia classroom, multilingual teaching database, simultaneous interpretation laboratory, teaching resources research and development base, which lays a foundation for the application of information technology in foreign language teaching. The notebook computers, ipad, smart phones and other computer equipment and electronic products equipped and used by teachers and students also provide necessary hardware conditions for the application of information technology and the development of teaching resources. At the same time, the coverage of campus LAN and wireless network also provide a strong support for the application of information technology, making the application of information-based teaching platform more convenient and efficient. Although the construction of hardware facilities has attracted the attention of all kinds of schools in China, there are still some problems. For example, the number of multimedia classrooms and information-based teaching and research bases cannot meet the needs of teaching

practice, and many teachers and students share a classroom, which makes it impossible to arrange relevant courses scientifically and reasonably; some liberal arts colleges do not have computer-related majors, information construction and hardware facilities, and the daily operation and maintenance level of hardware facilities and network needs to be improved, for it has affected the practical application of information technology in foreign language teaching [3].

In terms of information-based teaching resources development and platform construction, many schools, especially foreign language colleges and universities, have set up information-based teaching platforms containing English, Japanese, Russian, German and other multi-lingual teaching resources. On the teaching platform, online teaching is realized through different forms such as teaching courseware, graphic database, audio-visual materials and so on. At present, most of the information-based teaching platforms are developed by the education department and related enterprises. Teachers are less involved in research and development, which makes the practicability of many teaching platforms unable to meet the needs of teaching practice, and the initiative of teachers and students to use the information-based teaching platforms is not high [4]. Although some teachers participate in platform construction and resource development, their purposes are for evaluation of professional titles and project applications. It shows that the guidance and management of information-based teaching by education authorities and schools need to be improved.

In teaching practice, many teachers are not really aware of the importance of information technology to the reform and development of foreign language teaching. The degree of learning and application of information technology is far from enough. Even with the use of teaching platform or multimedia technology, it is difficult to integrate traditional foreign language teaching methods. Most foreign language teachers do not have basic abilities of resolving computer crash and adjusting sound effects. Teachers' dependence on traditional teaching modes directly affects students' foreign language learning methods, so that most students still maintain the learning habit dominated by traditional classrooms and books.

IV. FOREIGN LANGUAGE TEACHING DESIGN STRATEGIES BASED ON INFORMATION TECHNOLOGY

The integration of information technology has changed the subject of learning, the role of teachers, the carrier of teaching, the mode of teaching and the place of teaching in foreign language teaching. Against the background of informatization, the diversification of students' learning style strengthens the main position of students' learning. The main position of teachers in traditional classroom is challenged. While teaching knowledge, teachers should pay more attention to cultivating students' autonomous learning ability through diversified teaching methods. The informatization development of foreign language teaching has expanded the carrier of teaching. Multimedia teaching and cloud classroom have broken the time and space restriction of teaching and learning. The following is the change of teaching mode. To continuously improve the quality of foreign language teaching against the background of informatization, it is necessary to innovate and

explore from the aspects of teaching concept, management mode, application of informatization platform, and construction of teaching staff.

Since the end of last century, with the continuous innovation and development of information technology and the rapid rise of information industry, informatization has become an inevitable trend in the development of human society, and it is no exception in the field of foreign language education. It is the only way for the reform and development of foreign language teaching to promote the application of information technology in foreign language teaching. In the practice of foreign language teaching, it is necessary to first renew traditional teaching concepts and make full use of modern information technology in teaching design, and set up the teaching idea of taking students as the main body and learning ability as the core. On the basis of traditional classroom teaching, it is necessary to fully develop information-based teaching resources, construct convenient, efficient and autonomous learning space, build a multi-lingual, high-quality and wide-ranging information-based teaching resource system inside and outside schools, improve the quality and effectiveness of foreign language teaching, expand students' learning horizons, and cultivate students' innovative thinking and problem-solving ability. The scientific and reasonable use of information technology in foreign language teaching requires overall promotion and intensified management. Against the background of national promotion of information technology in education, relevant policies should be formulated by the competent educational authorities. Schools of all types should make plans for the development of information-based teaching resources, curriculum setting and professional training plan according to local conditions, equipped with adequate hardware facilities. The development and application effectiveness of information-based teaching resources, as performance evaluation indicators of various departments, is linked to the personal development of teachers. It is necessary to establish a system guarantee and an incentive mechanism for the design of foreign language teaching based on information technology.

As mentioned above, many universities, especially foreign language colleges and universities, are constantly developing information-based foreign language teaching resources, introducing or constructing teaching platforms based on the Internet and smart mobile terminals, but these platforms have not been effectively used, and even become "digital ruins" that simply flaunt information-based teaching. To solve these problems, first of all, based on the practice of foreign language teaching, it is necessary to make a full investigation, understand the actual needs of teachers and students in different languages, majors and schools in the process of teaching, and make clear the direction for the selection, construction and expansion of information-based teaching platform. Unlike other majors, information-based foreign language teaching platform is not only an information carrier of teaching activities, but also a multi-lingual database, which requires the joint efforts of education authorities, universities and related enterprises [5]. On the basis of scientific and reasonable development and selection of information-based teaching platform, it is necessary to apply traditional classroom

teaching and information-based teaching platform synchronously, and give full play to the practical role of high-quality teaching resources and network teaching media. Teachers can push the syllabus through the teaching platform before class, so as to facilitate students to make targeted preview and actively participate in classroom learning; make full use of teaching resources on the teaching platform in the process of classroom teaching, expand teaching, stimulate students' interest in classroom learning through diversified teaching methods; and push learning tasks through the teaching platform after class and classify the completion of learning tasks by the large data processing function of the information-based teaching platform, for it can facilitate the targeted promotion of the next stage of learning tasks, promote teaching according to aptitude, make up for the "equal treatment" drawbacks of traditional classroom teaching. In addition to classroom education, it is suggested to establish learning groups for students of different grades and interests by the use of information-based teaching platform to carry out learning seminars, frontier topic discussions, brainstorming, situational simulation, and to continuously improve students' speculative ability, expand knowledge and improve language use ability. Teachers should pay attention to play a guiding role in learning groups, make full use of the convenient online communication channel of information-based teaching platform, and construct a benign interaction between teachers and students, students and students.

The foundation of making full use of the information platform in foreign language teaching design is the establishment, perfection and scientific application of the platform. Fully utilizing the information platform to improve the quality of foreign language teaching puts forward higher requirements for the comprehensive quality of teachers. At present, although foreign language teachers have strong professional knowledge and classroom teaching experience, their overall information literacy is low. As mentioned above, many teachers cannot solve the basic problems of computer and network independently, nor can they effectively use the information-based teaching platform in teaching practice, nor can they invest in the functional development of the teaching platform. Whether at the level of educational authorities or schools, it is undoubtedly an urgent problem to improve the information literacy of foreign language teachers in an all-round way. Regular training of computer technology, network knowledge, software application and operation of information-based teaching platform for teachers can further cultivate teachers' understanding of education informatization and improve their application level of information technology in the teaching process. At the same time, teachers should improve their ability of selecting and integrating network resources through education and training, propaganda and guidance, assessment and management. For complicated information-based teaching resources, teachers should have strong ability of judging and screening [6], and be able to select scientific and appropriate platforms and resources for students according to teaching content and teaching objects. Therefore, truly realize individualized and efficient information-based teaching.

V. CONCLUSION

With the rapid development of information technology and the deepening of China's reform and opening up, it is not only the need of discipline development but also the need of foreign language talents training to further strengthen the construction of information technology in foreign language teaching. The design of foreign language teaching based on information technology will become an important issue in the field of education and even in the development of the country.

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