

Research on the Construction of Teaching System of Tilting Classroom based on Mobile Terminal

Yanrong Liu^{1, a}

¹ Shaanxi Institute of International Trade & Commerce, Xi'an, Shaanxi, 712046

^a email

Keywords: Teaching System, Tilting Classroom, Mobile Terminal

Abstract. Based on the "mobile terminal design and development course" in the traditional teaching mode students can only passive class, unable to implement the problem of personalized teaching, analysis of the flip classroom this new teaching model of the reversal characteristics, demonstrated in the mobile terminal design The Feasibility of Applying Reversing Classroom Teaching Mode in Development Course. From the needs of the curriculum, the design of the curriculum in the use of flip classroom teaching mode of teaching activities of the program, showing the teachers and students in the model to assume the corresponding task. Finally, the design and development support to flip the classroom teaching system, and summed up the introduction of the classroom after the need to solve some of the problems.

Introduction

With the continuous updating and development of information technology, mobile communication and computing technology into the daily education and teaching, has gradually become a reality. Mobile learning has clearly become a hot topic in current educational research. At home and abroad on mobile learning research has achieved some results. Foreign mobile learning education research is widely carried out, mobile learning and education applications have been involved in almost all areas of education, mobile learning and education applications continue to enrich the function of mobile learning research groups continue to expand. At the same time, the research and application of mobile learning also pay attention to practicality, and it has a lot of useful conclusions on the effectiveness of mobile learning resources, implementation methods, application scenarios and auxiliary learning, teaching management and so on. With the reversal of the teaching process, the whole teaching model has undergone a disruptive change, from the emphasis on knowledge transmission, teaching and learning to teach the mode of knowledge gradually transformed into information center based on the emphasis on the problem center, Which is the real meaning of flip teaching. This new form of education and teaching, to subvert the traditional sense of the classroom teaching model, but also to the teaching reform in the state of the people to see the classroom reform of the new hope.

Mobile Interconnection Technology and Mobile Learning

Mobile Internet technology (Mobile Internet, referred to as MI) is a mobile terminal equipment, the use of mobile wireless communications technology to obtain new services and services. In other words, mobile Internet technology is the user through the smart phone, laptop, ipad and other mobile terminal equipment through the agreement access to the Internet. Mobile learning research began in the last century 90's, researchers from different perspectives on mobile learning were interpreted: refers to relying on the current more mature wireless mobile network, the Internet and multimedia technology, students and teachers through mobile devices (such as mobile phones , Laptop, ipad, etc.), convenient and flexible to achieve interactive teaching activities. Students use mobile Internet technology as a new platform for learning, you can achieve anytime, anywhere to learn their interest in learning content, which is a new learning model. It has the following three characteristics: First, connectivity, can use the wireless network, mobile devices to achieve interoperability, thus building a rich content, resource sharing network platform, which is to achieve

the basis of mobile learning; Second, contextualization, to obtain And the response to a specific location, environment and time of real or virtual information to create a personalized, diverse mobile context; third is convenient, able to break the traditional fixed time, space learning model, so that people "at any time, anywhere , Carry "learning, to achieve arbitrary learning.

Flip The Definition and Characteristics of the Classroom

Flip the classroom, in recent years, the field of education, a kind of teaching mode, that is, to transfer knowledge and internalization process over, so that students in the extra-curricular time to learn the concept of curriculum and knowledge points, the classroom time to re-planning, mainly for answering doubts , To discuss the discussion, to achieve the reform of the traditional teaching model, so as to achieve better teaching results. We can use the map to represent the teaching structure of the flip classroom.

The concept of the classroom has gradually affected the teachers and students, closer to the distance between teachers and students and psychological distance, the role of teachers and students, status and psychological state have changed, through technical means, all aspects of classroom teaching process also Changes in the structure of students to construct a new way of cognition. In addition to reversing the learning style, it also flips the student's learning initiative and collaboration, gives the students the right and time to learn independently, and promotes the change of teachers' role to the mentor by the knowledge transfer.

In the traditional classroom teaching, the teacher is the owner of the knowledge, the teaching of knowledge, the teaching of the classroom, the student can obtain the infinite knowledge through various means, and constantly put forward the new question, so the teacher is no longer knowledge Authority, students are no longer passive recipients of knowledge. Teachers, students, teaching information media relations also will change, to promote the equal relationship between teachers and students, teachers are more appropriate to give appropriate advice to help or guide students, then teachers really become a student collaborative learning guide. Teachers should rationally design the teaching process, organize Q & A counseling and student interaction and group discussion, timely reply to the questions raised by students and make suggestions to encourage students to self-study and cultivate students' sense of cooperation.

In the flip classroom teaching mode, students are the explorers and constructors of knowledge. Students can choose according to their own needs learning content and learning situation, according to their own interests, the level of choice of appropriate learning starting point, learning content and learning objectives, to create their own personalized learning strategies and learning programs, self-building new knowledge, Evaluation, etc., for exploratory, creative learning, multi-dimensional integration of learning and research, in a collaborative learning environment, students based on learning content and learning objectives to interact to expand and build the depth of knowledge.

Flip the classroom teachers in the production of teaching video, teaching materials for students to learn online, homework is also completed by turning the classroom platform. Teachers through the classroom platform to track each student's learning situation, the students to help and guidance. Teachers in the classroom teaching the use of video teaching and other information technology means to encourage students to use digital equipment, according to their own learning progress for personalized learning. As a result, the teaching environment has changed, and information technology has become an indispensable tool and element in the teaching process.

Turn the Classroom Teaching Mode Advantage

Flip the classroom teaching, students can master their own learning time and place of study, for example, students can be extra time or home to learn when the teacher to explain the video. In the relaxed environment, students are more likely to accept new knowledge, rather than the traditional classroom teachers focus on teaching as nervous, the students will be distracted by the teacher can not keep up the rhythm. Students watch the teaching video, the rhythm all have their own control, you can fast forward or backward, you can stop to take notes or thinking.

Flip classroom mode can enhance classroom interaction, mainly in the interaction between teachers and students, the interaction between students. As in the flip teaching, the teacher's role has been transformed by the learning leader into a student learning coach. This reduces the teacher's teaching time and increases the student's time. And students in the face of problems, teachers can give appropriate guidance. When the teacher is no longer the preacher of knowledge but the guidance of learning, you can observe the interaction between students, more understanding of students, more students to learn the content of the degree of mastery. In the flip teaching, teachers can also be one-on-one communication, you can also group the students to cooperate with each other and enhance the interaction.

Each student's learning interest and learning methods are different, in the traditional teaching model can not be different students to implement different education, making the education model of a single, the student's personality can not be displayed. In the flip teaching, each student can be arranged according to their own progress in the teaching process, learning faster can be more difficult to learn English, and learning can be slow to lay the foundation, learn some basic knowledge of English. At the same time, students through their own active learning can improve the ability of independent learning, so that they take the initiative to explore the problem, solve the problem and improve their sustainable development.

Implementation Strategy of English Tone Classroom Teaching based on Mobile Learning Software

English tumbling classroom teaching carries a variety of teaching ideas such as informationization education idea, project teaching idea, cooperative learning, autonomous learning, inquiry learning and so on. Therefore, English teachers should improve professional quality, integration of a variety of English teaching philosophy, in order to build a complete English knowledge system. In addition, English teachers should regularly participate in information technology application training, improve information literacy, for students to construct a suitable for self-learning and can quickly and easily access the learning resources of the virtual learning environment.

Most college students are accustomed to the "classroom to listen to the teacher speaking, class to do written homework," the traditional English teaching methods, for the new flip classroom teaching little understanding. Therefore, in the implementation of the teaching before the renovation of the classroom should be a comprehensive introduction to the students to turn the classroom teaching ideas, teaching processes and advantages, stressed that the classroom to students under the autonomy of learning, based on student language comments and guidance for students to adjust as soon as possible Learning style, adapted to flip classroom teaching. Flip the classroom is not suitable for reasoning strong, highly systematic courses. In the English class, we have recorded the teaching video of the project knowledge point in advance to prepare the students for self-study before class, which is conducive to freeing up the classroom time for teacher and student interaction or student language application. Therefore, the flip classroom is more suitable for English listening and speaking courses. In the choice of English projects, students should take full account of the interest and career needs, so as to the real English project scenarios, effectively stimulate students to learn English initiative, improve the teaching effect of flip classroom.

Teachers can be based on the focus of the project assessment, design a variety of forms of real project assessment context. Such as interview site, product launches, project demonstrations, simulation companies, etc., through the field training, filming or audio and other forms, so that all students have the opportunity to show in the classroom they learn English project knowledge and skills. In addition, the teacher design a perfect form of evaluation form, so that students participate in the project assessment, effectively motivate students to learn motivation.

Pre-school activities are based on mobile terminals. As a teacher, in the pre-class teaching video, online test exercises and other related teaching materials. Teaching video can be recorded by the instructor or directly access to the network of existing video information, if the teacher self-recording teaching video, first of all to ensure that the content of teaching video in line with teaching objectives and teaching requirements, focus on teaching video visual effects, color

matching and interaction The design of the elements; teachers in the production of online test exercises, students should take full account of the existing knowledge to grasp the situation, a reasonable arrangement of each chapter on the number of online test exercises and difficulty. As a student, before the class should be independent to watch the video and complete the corresponding online test exercises, their own control of learning progress and time, after learning the teaching video and other relevant information, complete the teacher in advance of the online test exercises to strengthen the consolidation of learning content and Verify the grasp of learning content. In the course of pre-class self-learning, between students, teachers and students need to use the mobile terminal through the flip platform platform and other online tools for online communication, students can exchange learning experience and experience in the process of autonomous learning To the problem. Teachers and students can also be exchanged between teachers can be online to answer the difficulties encountered by students, students of individual counseling.

Conclusion

Mobile terminals and their applications to facilitate the transfer of the classroom, mobile terminal and flip the classroom combination will promote the transformation of education, with the mobile terminal equipment and the corresponding support for the development of the environment, mobile terminal and flip classroom combination will be widely used Teaching process, based on mobile terminal flip classroom teaching mode will be practice and promotion.

Acknowledgements

Project: Study on the construction of flipped classroom teaching mode based on mobile terminal

Issue number: SGH16H316

References

- [1] Liu Yuqin. Mobile terminal assisted Japanese pronunciation learning software design and implementation [J]. Primary and secondary school audio and video. 2014 (10)
- [2] Duan Jihong. Study on the Construction of Higher Vocational English Mixed Teaching Mode Based on Mobile Terminal [J]. Campus English. 2017 (28)
- [3] Xu Yijuan. Based on the mobile terminal background of college English flip classroom application analysis [J]. Campus English. 2017 (30)
- [4] Wu Ying. College English translation teaching based on mobile terminal teaching research [J]. Modern vocational education. 2016 (04)
- [5] Deng Yuzhen. Students in high school English learning how to correctly use the mobile terminal [J]. Language outside the study (high school version of the early.) 2015 (09)
- [6] Song Xia. Based on the mobile terminal of college English flip classroom exploration [J]. Journal of Changjiang Engineering Vocational and Technical College 2014 (04)