Analysis of Online and Offline Mixed Teaching Mode Based on "Mooc + Spoc"

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Abstract: In the context of the rapid development of internet technology, the emergence of MOOC has a certain role in promoting the realization of education equity in China. In order to further improve the quality of teaching, Chinese educators continue to explore better teaching mode. This paper aims to optimize the blended teaching mode by constructing the teaching mode of "MOOC + SPOC "in computer foundation. In order to improve the influence of classroom teaching, stimulate and improve students 'interest in learning, and provide reference for the improvement and development of the current mixed teaching mode.

1. Introduction

The emergence and development of Internet technology has brought about great changes in today's world, people's life style and learning style have undergone changes. The application of Internet technology not only creates great economic value for the society, but also plays an eye-catching role in the field of education. New education modes such as MOOC, SPOC and Internet-based flipped classroom have begun to popularize. Teachers should see the advantages of online education, combine online education with offline education, optimize classroom teaching, improve their teaching ability, and lead students to better learn new knowledge and master new skills.

2. The Significance of Constructing the Online and Offline Mixed Teaching Mode

MOOC represents a massive open online courses, as opposed to a traditional physical classroom teaching, which is based on high quality online education resources, to the learners as the center, emphasize the interest orientation, no requirement to the number of courses, even learners can reach millions at the same time, teachers also will participate in teaching activities and answer students questions online. Students who participate in MOOC learning come from all over the country and even the world. Based on the diversity of autonomous learning in the era of big data, students have flexible learning methods and rich learning resources. However, due to the distance between teachers and students and the large number of students, teachers cannot grasp the learning state of students and cannot completely replace traditional teaching.

SPOC stands for Small Open Online Courses, which is a development and complement of MOOCs, and can be simply understood as SPOC = MOOC + Classroom. The SPOC is a hybrid

education model that combines physical classrooms with online education. It can make up for the deficiency of MOOC in school teaching, that is, too many students, unable to control the quality of students' learning and so on. SPOC has teacher-student relevance. By controlling the number of learners, teachers can control the learning state of students.

3. Based on the "Mooc + Spoc" Online and Offline Mixed Teaching Mode Design

3.1 Preparation for Course

Under the mixed education mode, the preparation before class must analyze three elements: learning object, educational content and learning environment. The analysis of learning objects should be carried out from the students' major, grade and learning ability. The analysis of teaching content focuses on course design and planning, key and difficult points in learning, common problems and educational objectives. The analysis of learning environment can be divided into physical classroom and online network classroom. For the system used in network classroom, teachers should timely guide students to get familiar with the relevant operation of the platform, so as not to affect the course progress and teaching effect.

3.2 Design of Online Teaching Activities

For teaching units, teachers need to create or find appropriate micro-course resources, usually including micro-videos, micro-courses, micro-teaching plans and auxiliary learning materials, through which students can conduct online preview: First of all, we should understand the task and learning outline of this study, then complete the pre-class tasks assigned by the teacher, and then conduct pre-class knowledge discussion and problem sorting in groups to get ready for the speech in class.

3.3 Offline Teaching Activity Design

Pre-class preview: Before the beginning of the course, students will learn online short films, tutorials, teaching plans and auxiliary resources according to the content orientation requirements designed in advance by the teacher, and on this basis, they will build their personal knowledge system and emotional value. Testing after class: Testing is a means to test students' learning effect. Teachers can call corresponding test questions according to different knowledge points and degree of difficulty to test students, which can be found from the question bank resources or edited by themselves. Group activities: group cooperative activities can not only enhance the cohesion of students, but also strengthen the enthusiasm of students to study. Teachers can organize group cooperation through designing homework, and students can constantly improve their comprehensive quality in team cooperation. Mutual evaluation activities: mutual evaluation can encourage students to learn from each other, through the work of others to examine their own shortcomings and understanding. After students record their study notes in class, they upload them to the platform, and students score each other and include them into the range of their grades.

3.4 Curriculum Evaluation Design

By means of questionnaires, students are investigated and analyzed in terms of their willingness to participate in activities, effective activity modules, online interaction feelings, evaluation of learning methods, and results achieved, and the advantages and disadvantages of curriculum design are evaluated from students' actual feelings.

4. Conclusion

Both MOOC and SPOC classroom are teaching modes, which have completed the transformation from "teaching-centered" to "learning-centered". In terms of learning methods, the above models provide possibilities for students to maximize their learning autonomy and choice opportunities. "MOOC+ SPOC" hybrid teaching mode is a breakthrough innovation of the transformation of teaching mode. By integrating this model into the computer foundation curriculum, the sharing of the curriculum is further developed, while the curriculum is also localized and provides students with a more personalized learning plan to promote effective autonomous learning. Under this new teaching mode, it has played a positive role in the further development of students by cultivating students' good computer thinking and realizing the transformation of knowledge.

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