



Research on Teaching Reform of Local Universities Based on Online Education

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Abstract. The rapid development of online education has set off a new upsurge of education and teaching reform in China. Online education makes educators think about how to deal with educational development problems under the Internet environment. At present, many local colleges and universities still use the traditional teaching management methods and teaching ideas. Facing the changes of college students' needs in the network age, the traditional teaching management and teaching ideas have exposed many problems, which are difficult to meet the needs of the times. Under the background of online education, local colleges and universities are required to carry out teaching reform, change curriculum and teaching ideas, and adapt to the new demands of educational development.

Keywords: Online education · Courses · Teachers · Reform in education

1 Introduction

The emergence of COVID-19 epidemic has had a great impact on China's social and economic life, and at the same time promoted the online process of all walks of life. Education, as one of the most important industries in China, should fully implement online education to cope with the changes in educational needs brought about by this epidemic. For the first time, online education covered all disciplines in all academic segments of China, and became the main force to realize "suspension of classes and non-stop study" in the epidemic prevention and control stage. What's more, the large-scale coverage of online education has made educators in all sections realize that online education is an important teaching means to solve the educational dilemma in special period, and it is also the only way to further promote the current teaching reform, promote educational equity and share educational resources. Based on the practice of online teaching in China, this paper analyzes the opportunities, challenges and impacts of online education on undergraduate teaching reform in local universities.

2 Online Education Provides an Important Opportunity for Teaching Reform in Local Colleges and Universities

Compared with traditional teaching, online education has the advantages of rich teaching resources, convenient operation and good interaction ability. The combination of online

education and traditional teaching forms a hybrid teaching mode [1], which combines online and offline. This teaching mode can have the advantages of online education and traditional teaching and overcome the disadvantages of online education and traditional teaching. The impact of blended teaching on local colleges and universities will be described in detail below.

2.1 Fragment Time Becomes Learning Time

Online education allows students to learn from any course anytime, anywhere. Online education makes it possible for students to make full use of their fragmented time to study [2]. During the epidemic, many local colleges and universities promoted the use of online education software platforms such as Learning Pass and Rain Classroom. Students can use these platforms to review and consolidate what they have learned in their spare time and ask questions about knowledge points they don't understand. Teachers can answer questions according to students' questions and messages. Besides, students can also use the online education software platform to learn some other courses that they are interested in. Online education resources are abundant, which can provide conditions for better training talents with all-round development in morality, intelligence, physique, beauty and labor.

2.2 Personalized Teaching Can Be Realized

Online education can promote the further realization of educational equity. In the traditional classroom teaching process, in order to take into account all kinds of students, teachers try their best to prepare lessons and give lectures, and it is difficult to teach students in accordance with their aptitude. Online education has solved this problem to a certain extent. According to their own learning situation, all kinds of students can repeat or replay the knowledge points they don't understand, review and consolidate the already understood knowledge points, and truly realize personalized teaching.

2.3 Sharing of Teaching Resources Can Be Realized

Online education platform has rich teaching resources, and the content of the course is constantly updated. Students can easily and quickly access to teaching resources. Compared with traditional teaching, online education teachers combine the characteristics of various online teaching platforms to use flexible teaching methods, resulting in a variety of different teaching effects [3]. In online education, the interaction between teachers and students breaks the limitation of time and space, thus realizing the optimization of teaching resources.

2.4 It Can Realize the Suspension of Classes

During the new epidemic period, according to the requirements of the Ministry of education, Chinese students in all stages of school were delayed. In this context, in order to enable the students to study all courses normally, the education authorities and schools

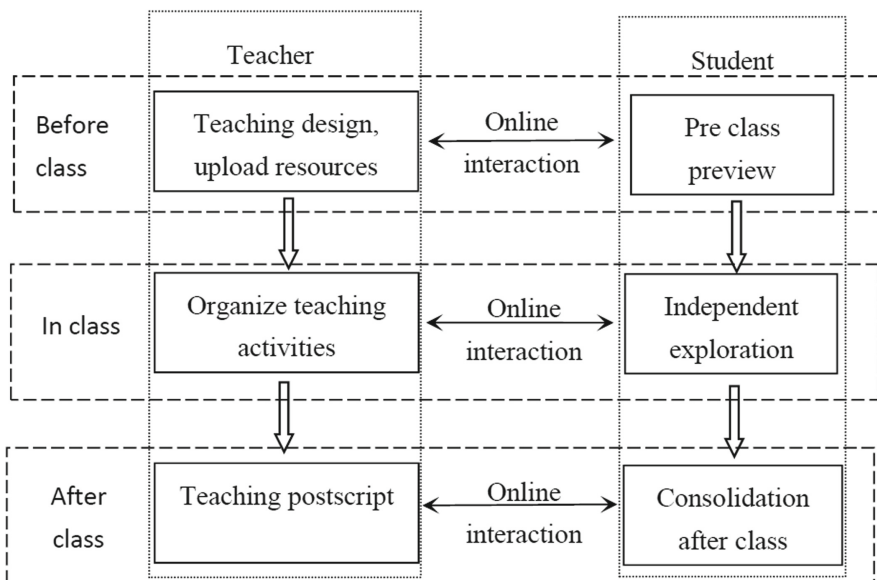


Fig. 1. Super star online learning flow chart

all use online education to complete the teaching tasks, which truly realizes the suspension of classes. Online education in local colleges and universities played an important role during the epidemic period, which promoted the rapid development of online education and realized the rapid improvement of online education platform function. Online education courses not only have professional courses offered by schools, but also have many public welfare courses, so that students can learn how to correctly prevent new crown pneumonia. Online education makes education not only happen in schools, it can break through the limitation of time and space, and break the boundary of education. In the special period, it can realize the suspension of classes without suspension of school, and help teachers and students complete the task of teaching and learning.

For example, if the core of the construction of the campus network learning resources. The platform has online teaching, personalized teaching, teaching resources sharing and other functions. The specific teaching mode is shown in Fig. 1. After using superstar learning platform for online teaching, the whole process of teaching is completely stored in the online course platform. In the late teaching reflection, we can summarize and research according to the previous records at any time and conduct horizontal and vertical analysis, so as to improve teaching means, optimize teaching resources, carry out curriculum construction and curriculum reform.

3 Online Education Challenges the Traditional Teaching Mode

3.1 Challenge to Traditional Teaching Concept

In the traditional teaching mode, teachers are the masters and disseminators of knowledge. Teachers are in a dominant position in the classroom, and classroom teaching is

mostly “one talk”. Students are the main body of teaching. Students learn knowledge passively from teachers. This kind of teaching mode is difficult to achieve good teaching effect. Online education overcomes some disadvantages of traditional teaching. The channels for students to acquire knowledge are diversified, and teachers are no longer the only carrier to master knowledge. Therefore, teachers should adjust teaching methods, update educational ideas and establish modern teaching views according to teaching reform.

3.2 Challenge the Traditional Teaching Mode

In the traditional teaching mode, teachers and teaching materials are the center, and only the imparting of knowledge is emphasized, but the cultivation of students’ autonomous learning and innovation ability is not paid enough attention. With the continuous maturity of Internet technology and the integration of all walks of life, online education has become a trend of teaching reform in local colleges and universities in the future. Online education overcomes some disadvantages of traditional teaching mode. Teachers can use existing teaching videos or high-quality courseware, or record teaching videos or courseware in advance and then put them on the teaching platform for students to use. Students can use mobile phone terminals or computer terminals to carry out various learning activities, and abandon the teaching mode of one-way instilling knowledge into students in class by a teacher. For example, teaching platforms such as Learning Pass and Rain Classroom can provide teachers and students with services such as course video, class management, online correction of homework, sign-in, online discussion and answering, etc. The teacher’s identity is changed into the organizer, guide and evaluator of teaching activities.

3.3 Challenges to Teachers’ Career Development

In the traditional teaching mode, the teacher is the authority and the disseminator of knowledge, so-called preaching and imparting knowledge to solve doubts. With the development of online education, there are various channels for students to acquire knowledge, and knowledge learning has changed from one-way communication to multi-way interaction. Therefore, a new teacher-student relationship has been established between teachers and students, which puts forward new requirements for teachers’ professional development. Under this new teaching mode, teachers should conform to the trend of teaching reform, deeply study online teaching theory, carry out teaching research, constantly learn various skills of online education and popularize them in teaching to improve teaching effect.

3.4 Challenges to the Traditional Teaching Management System

The local teaching management system in colleges and universities mainly includes various rules and regulations formulated by schools and the teaching means used by teachers to perform their educational duties. At present, many local universities still have outdated teaching management concepts. For example, many local universities

still restrict the use of mobile phones in class and configure mobile phone bags in classrooms. Many teachers and teaching administrators still emphasize the harm of mobile phones and computers to learning, and lack a correct understanding of online learning. Under the background of the rapid development of online education, local colleges and universities should adjust the teaching mode, classroom configuration, teacher evaluation standards, etc. They should attach importance to the combination of quantitative evaluation and qualitative evaluation of students' learning effects, and establish a diversified and all-round teaching evaluation system. Therefore, local colleges and universities should combine online education with teaching management to innovate and reform the teaching management system, so as to achieve the purpose of improving teaching effect and quality.

4 Teaching Reform in Local Colleges and Universities Under the Development of Online Education

4.1 Education Management

Update the Concept of Curriculum and Teaching Management

Many local curriculum systems in colleges and universities are based on the training programs of professionals and the corresponding syllabus. The curriculum content is relatively single, and the curriculum evaluation is characterized by a single standard, lacking in flexible management [4]. The Internet era emphasizes the ubiquity of learning and the diversity of learning evaluation. At present, some colleges and universities have made great achievements in the reform of curriculum and teaching management. They divide the curriculum into several modules, and students can choose some modules according to their own learning needs to support students' individualized and asynchronous learning. In addition, highlight the functions of the teaching management department, reform the management mode in terms of student status, credits, academic qualifications, etc., and study and try to realize the credit certification of individual courses.

Reform the Teacher Evaluation System

In the traditional teacher evaluation system, teachers' published papers, applied teaching and research projects and course teaching tasks are important indicators. Under the background of online education, the role of teachers has changed. Teachers have changed from the leader of the classroom to the organizer of teaching activities, and the teaching activities of teachers have undergone fundamental changes [5]. Local colleges and universities should reform the teacher evaluation system to better adapt to the trend of educational development, such as encouraging teachers to build online courses and providing them with supporting policies; Encourage teachers to build online demonstration courses, support teachers to use online educational technology, and explore curriculum construction and teaching mode suitable for students. Through a series of measures, we should update teachers' teaching process, formulate teachers' evaluation indicators and formulate corresponding evaluation system based on the new teaching process.

Provide a Teaching Platform

Local colleges and universities should formulate relevant supporting policies to support the construction of online education and teaching platform. The construction of teaching platform can provide hardware support for teachers' teaching method reform and students' autonomous learning, and further promote curriculum reform and curriculum construction. Using the teaching platform to build courses can form the accumulation of course resources, use the background data of the platform for teaching evaluation, provide important data support for the course reform and construction, and create a benign atmosphere for the teaching reform.

4.2 Teachers

Update the Teaching Philosophy

Under the traditional teaching mode, the teacher's teaching method is basically one-word, and the teacher is the leader of the classroom. Students passively receive knowledge, so it is difficult to exert their subjective initiative. Under the current background of online education, students' needs and knowledge absorption channels have changed, which puts forward higher requirements for teachers. If teachers don't update their teaching ideas, they will be eliminated. Under the background of online education, brand-new teaching ideas are embodied in the following aspects: respecting students; Pay attention to students' individual differences; Students are the main body of teaching activities, and teachers are the organizers and guides of teaching activities; Strengthen the cultivation of students' autonomous learning ability; Modularization of knowledge and skills to carry out teaching [6].

Changing the Role of Teachers

Teachers should change their roles to meet the needs of educational development. It is embodied in the following aspects: First of all, in terms of educational philosophy, students should be guided to discover knowledge and adopt efficient learning methods to master knowledge instead of just focusing on how to make students understand knowledge; Secondly, in education and teaching, teaching design should run through the whole process of education, including online course resources, teaching platform, answering platform, etc., instead of just paying attention to the original 45 min in class. This has brought more workload to many teachers, and the content of lesson preparation has also undergone significant changes. Thirdly, teachers should master the development methods of curriculum teaching resources and how to integrate them with the teaching platform. Finally, teachers must be good at teaching research, put forward their own solutions to the new problems exposed in online education, and even form their own teaching art and educational ideas.

5 Conclusions

In the Internet of Things era, everyone is making and using data. The vigorous development of online education makes it possible to learn anytime and anywhere. With the development of online education, the technology in teaching activities is constantly

changing and educational reform is promoted. Local colleges and universities should adapt to the opportunities and challenges of educational development, and carry out all-round reforms in teaching management, teachers' responsibilities and curriculum construction, so as to realize the mission of local colleges and universities to cultivate applied talents for our country.

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