

Impacts of network resources on teaching and the corresponding countermeasures

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Abstract

Under the time of information age, network teaching, the product of the combination of modern science and technology and modern education theory, widely used in the practice of teaching and education system, is bound to make many new innovations with the development of computer-assisted teaching and the accelerated updating pace of educational technology. This paper discusses the influencing factors of network resources on teaching and explores the corresponding countermeasures should be taken.

Keywords: Network resources, Impacts on teaching, Countermeasures

1. New teaching mode built with network resources

With the development of modern information technology, network technology is applied in the field of education, and teachers finally get rid of the heavy lesson plans. The educational way of using traditional tools to teach learners is gradually replaced by a new type of online teaching. With the relocation of teaching resources, the update of educational method, the expansion of modern knowledge and information, students are exposed to more advanced and practical knowledge and skills. Those things such as leading educational thoughts, standardization of the teaching system, expansion of the amount of students, update of teaching form, diversification of knowledge contents have brought great

changes in the role of teachers and transformed their ideas as well as updated the teaching modes [1-3].

Teaching mode as the basic structure of teaching activities exists objectively. Every teacher, consciously or unconsciously, carries out teaching activities in accordance with certain teaching mode. The rapid development of the network has put forward higher requirements for the innovation of teaching mode. Teaching by using the network resources should be done in a more relaxed environment and based on co-teaching relationship. The main line of this kind of teaching is guided teaching program to fully motivate students' awareness. Through the optimal combination of network teaching system, a new teaching mode is to be constructed which can realize the students' self-learning ability, innovation ability and the overall quality. The core of this teaching mode is teaching-guided, study-centered, with questions the main axis and innovation the main line.

During the process of teaching mode based on network resources, under the guidance of teachers, students are given fully role to play, and thus they can learn actively and innovatively. The dominant in the class are students themselves, while teachers only play the role of an additive. The whole teaching thoughts are realized through the activities of the students. Therefore, during such bilateral activities, neither the guidance of the teachers can be ignored, nor the learning of the students should be underestimated. Students are the main body of learning, and their learning is guided by the teacher, and

they are actively cooperating with the teachers. If the leading role of teacher is ignored, the students' subjectivity will not exist. Only with the active cooperation between students and teachers, the best teaching results will be fully achieved. By using network resources to reach innovative teaching, according to the rules and characteristics of teaching, the basic class teaching mode can be constructed as follows:

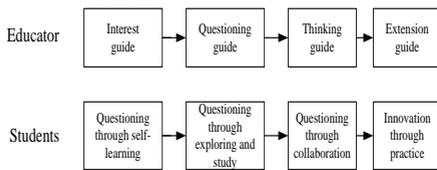


Fig. 1: class teaching modes

From the above, we can find that, on one hand, teachers should correctly grasp and use network resources to realize innovative teaching during the process of network resources teaching. On the other hand, teachers should pay attention to the combination of learning, thinking, and innovation, should focus on learning, and try their best to achieve three “turns” of learning, that is, to turn students from “learning well” to “how to learn”, from “I have to learn” to “I want to learn” and turn the “teaching plan” to “learning plan”. Teachers should also highlight innovation, that is, turn the places of learning to the base of innovation, and improve the overall quality of students in practice.

During the update process of teaching methods, teacher should also turn their roles to guider, organizer and promoter. Teachers should target the prominent individual role of students, guide their learning process and improve their learning efficiency, allow students to do individualized independent study online in order to make self-discovery and self-exploration and thus broaden their knowledge, raise their ability in awareness, and strengthen their overall quality. To create new teaching method, teachers

should take different teaching strategies and measures to meet the needs of different students. For example, linear teaching mode can meet the need of those who understand less well about the knowledge, whose foundation is weak. Through systematic learning, those students can learn the knowledge from preliminary understanding, and gradually to specific use, and then firmly grasp the knowledge and eventually reach the learning objectives. The mesh teaching strategies can meet the need of those whose foundation is better, and who have been familiar with the learning contents. They can click mouse on different learning areas according to their own needs and complete a set curriculum plan through independent study. As teachers, we should give full play to the initiative of students, and optimize the structure of the classroom, update classroom concept, make full use of network resources, so that changing the situation from teachers-oriented to students-centered, students study and practice manipulating their study and practice independently.

Students should establish a new way of thinking. The introduction of network teaching into class educational mechanism can help teachers inspire and develop their own multi-level thinking, which will undoubtedly enrich the state-of-the-art educational thoughts and ideas. At present, this new thinking can be concretely manifested through three forms. First form is through independent thinking and courage to explore. In view of the online teaching self-learning supplemented by the guidance of teachers and focused on developing the ability to understand the characteristics of individual students, students in the process of online learning, should pay attention to choose the means of independent thinking and learning, use e-learning tools, dig difficulties and doubts and ultimately solve the problem. Second

form is to seek help to resolve the difficulties. When students himself are unable to overcome the difficulties encountered, they should resort to the teachers, after all the teachers are still in a central position of the control and guidance in the entire network teaching. Coaching by the teachers, not only can make the students comprehend the problems, they can also save a lot of valuable time for other knowledge. Third form is to exchange views and learning to deepen understanding. Students can discuss questions through online communication tools, such as Web, E-mail, Net-meeting to learn from each other and consult together, not only improving their ability to analyze problems, and also enhancing the collective consciousness.

2. Enhance the teaching condition with network resources

Innovations brought by the network teaching are not just about teaching mode and innovative concepts, but also including changes in all aspects of the external form, environment and means.

First of all, online teaching, as a new educational mode, has injected a new vigor for teachers' teaching form. In the field of education, teaching methods are constantly changing with the time passes, ranging from private school, classroom, TV lectures to virtual network classroom, thus gradually making the teachers away from the sight of students, giving students more freedom to develop. Teaching aids are also supporting innovation in the history of the changes. From using quipu in ancient time, to bamboo in Qin dynasty, to brush pen and ink stone later, to blackboard, chalk and teachers' pointer in modern times. Now the majority of educators are focusing on network teaching system, and generation after generation of students grow into national pillars in this

invisible change. Special learning environment created for students by the multimedia computer is the most remarkable feature of the network teaching. The form of multimedia information can have sound, images, or even three-dimensional animation. We often use a variety of forms of information simultaneously, and perform the same content from different angles and through various means, so that generalized and abstract principles and concepts can become concrete and vivid, easier to understand and remember.

Second, through the wide application of network technology in teaching, a fundamental shift in traditional mode of learning has occurred, the students jumped out of the limitations of the particular environment classroom, through the manipulation of server by teachers, students linked thereto can learn cross-curricular knowledge and skills in various fields at different time, places through a network connection, they can choose the learning content, turning the air classroom into reality. At the same time, they can then do virtual laboratory experiments, browse the virtual library, integrate with the surrounding environment naturally, and stimulate interest in learning, improve learning enthusiasm. This subtle appeal plays a very important role in enhancing learning efficiency.

Finally, the network teaching also broadens the information channels that learners acquire knowledge. In the choice of network materials for acquiring knowledge, students need not blindly follow the traditional classroom linear learning way, they just click to learn according to their own needs. To give a simple example: If a student has mastered the basic knowledge of college English in online teaching, he can skip the basics of learning areas, just click the reading and listening area to improve himself. Update of this learning tool, not only allows students to save a lot of valuable time, but

also achieves a multiplier effect by selecting knowledge purposefully and targeted in accordance with their own foundation and understanding of the knowledge.

3. Enhance the teaching quality with network resources

Education informationization has put forward higher requirements for the whole process of teaching educators. The role of teachers in network teaching is still important, can not be ignored. In order to deepen education reform and improve the quality of teaching, teachers should impart knowledge while constantly enrich and enhance their own qualities.

First, teachers should learn the essence from traditional teaching methods, but also make some innovation, the so-called “take the essence and discard the dregs”, to discover new and available things from the traditional means of education and apply them in modern education flexibly. At the same time, the teachers should continuously improve their knowledge structure and innovative ability. In addition to mastering the knowledge of their own courses, they also need to strengthen the learning of computer technology, audio frequency technology and knowledge of modern educational technology, etc. to adapt to the modern teaching and learning environment, the network teaching with the coexistence of text, sound, film and images. The teachers should also improve and enhance the understanding of television art, director theories, and aesthetic basis in order to enhance their understanding of secondary subject knowledge, enrich and expand the content of the network course.

Second, we should strengthen the understanding of software knowledge and be capable of independent development and production of educational software, take full advantage of the online education information, and constantly enrich

and update educational resources. Only when teachers master the knowledge of related software, will the content be taught comprehensively, specifically and clearly in every aspect of the teaching work with the help of multimedia and networking tools, will the teachers cope with various problems raised by the students and meet the knowledge needs of the students. Under normal circumstances, the teachers should master the simple educational software full of materials, which can attract students’ attention, use the graphical animation to stimulate students’ enthusiasm for learning, and thus encourage students to firmly grasp the teaching content, and understand their essential meaning. Teachers during the courseware making, not only should start from the teach ability and learn ability of the courseware, but also should grasp the artistry of the courseware. Through the beautiful, vivid and flexible screen, it will be easier to attract students’ attention, to mobilize their learning enthusiasm, and train their ability to observe things, analyze and solve problems in a relaxed environment.

The artistry of the courseware can be grasped from the following points: First, we should use the user-friendly appearance, with reasonable color screen in line with human visual characteristics and psychological needs of the students. Second is in the production process, in order to enhance the three-dimensional screen, we can use animation to meet the need of teaching, enhance its attraction. Third, we should use simple screen and smooth structure to avoid overly saturated hue, otherwise it will make the students have fidgeting feeling, and thus play a negative impact on the realization of the teaching objectives. Fourth, we should make sure the proper dubbing, moderate speed, and beautiful timbre.

Third, the teacher should be proficient with the platform that supports network

teaching, should ensure the stable operation of the teaching system. In the field of modern education technology, those teachers who do not know how to manipulate the media tools will eventually be eliminated due to being outdated. Therefore, it is necessary for the majority of teachers in the teaching practice to continue to enhance learning, update knowledge and optimize the knowledge structure, improve the operational capacity to adapt to the needs of the scientific progress and the development of information technology.

To face the new standards and new requirements of the whole process of teaching, students should continue to enrich themselves and improve their knowledge structure in order to adapt to the needs of the new educational mode. Firstly, the network teaching requires students to be able to manipulate the computer and its associated equipment, to understand the common knowledge of computer and network knowledge, and thus can resolve the teaching failure quickly and independently during the learning process. They can click the mouse to strengthen the links between the teachers through network transmission. Secondly, students should abandon the traditional learning method which is relying too much on the teachers. One of the main purposes of the network teaching is to explore, cultivate, and guide the independence and creativity of students, and to provide new ways to acquire knowledge and practical skills for individual students. So the students consciously cultivate their initiative to obtain and process information from their own need in order to broaden their knowledge and improve their overall quality. Thirdly,

students should master the correct method of learning, should be good at discovering, accumulation, and problem-solving. One of the important methods to cultivate those abilities is to observe, analyze and find out the doubts and difficulties in the learning process, actively communicating with teachers through network, and ultimately solving the problem and reaching the purpose of acquiring knowledge.

With the continuous development of information technology, the use of network resources in teaching has flourished in a considerable part of the institutions and colleges, and has gone forward in leaps and bounds speed. As for the new challenges of the modern teaching mode, every educator should correctly face this change and take positive and effective measures to truly realize the organic integration of teaching and learning, and constantly optimize the structure of teaching, reform means and methods of teaching, improve the quality of teaching through network teaching, and play a greater role in improving students' overall quality.

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