

Reflection on the Application of Information-Based Network Teaching

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Abstract. The network courses as a new teaching mode is combined by computer network technology, multimedia technology and professional curriculum, it plays an essential role in modern teaching. This paper analyzes the advantages of network course in the application of modern teaching, combining with the practice of online teaching application system, it point out the problems which exist in the teaching applications, and also advance applications countermeasures and attention points. It has a certain reference that carry out teaching practice by applying network course teaching correctly.

Introduction

Network course is web-based courses which is guided by the advanced education thought, teaching theory and learning theory, it is the sum of a subject teaching content and implementation teaching activities through the network express. It consists of two parts, one part is the organizing teaching contents according to certain teaching objectives and teaching strategies, the other is network teaching support environment. The network teaching support environment specifically points software tools, teaching resources which support network teaching, and the teaching activities which is implemented on network teaching platform.

The Advantages of Network Course in the Teaching Application

Network course is organic combined of multimedia technology and network technology, integrate a variety of media and network functions, at the same time based on the teaching theory which is maturing through the teaching practice, it has the incomparable advantages of traditional classroom teaching.

A. Network course with convenient flexibility, good interactivity, powerful integrated features.

Flexibility is both in the network course development process, and the organization process of practical teaching, course content can adjust at any time according to the needs of teaching; and traditional classroom teaching is the single linear or one-way presentation type, in accordance with the established teaching content teaching. Network course can present nonlinear teaching information, convenient for teaching information extension, backtracking and expansion, it conforms to mesh characteristics of the human thinking; and traditional classroom teaching present information is linear only, it has great limitations.

Interactive performance represent in the interactive teaching, the teaching activity based on the network course is not only has a face-to-face interaction in classroom teaching, but also and has a one-to-one, one-to-many, many-to-many interaction, it is difficult to realize in the traditional classroom teaching.

Integration of network course is that it can maximum integrate teaching resources through a variety of media forms, such as text, graphics, animation, audio, video, etc. Maximize integrate teaching resource, achieve resource sharing, and the traditional classroom teaching is unable to

realize this integration.

B. Carry out classroom teaching through the application of network course can better reflect the mature theory developing in the teaching practice

Carry out classroom teaching through the application of network course, which contains both the traditional classroom teaching of "teaching and learning" teaching theory basis, and has the latest cognitive learning theory such as constructivism theory foundation. From the constructivist perspective, the network course create study conditions for students' cooperative learning, provides more freedom of choice. Constructivism emphasize the learners actively construct internal psychological process, at the same time emphasis on the learner's "collaboration" and "dialogue", it can make the learners understand the issues more in-depth, know more comprehensive; Moreover, resources sharing and beyond space and time determine the learners have more freedom choice in the learning process, they gain more useful, more rich individual character knowledge in a diverse learning environment.

C. Classroom teaching based on network course is easy to implement change, from traditional teaching mode that is attach importance to teaching and make light of learning to the double main teaching mode.

Double main teaching mode that is teachers dominate, students as the main body, emphasizes teaching and learning is same importance . Core is attach importance to student's main body role, in the teaching process, students will always be the main body of knowledge construction, teachers bring into play organization, guidance, regulation and control role, to motivate and maintain students' learning activeness, change a one-way transmission into two-way teaching methods, ensure the free exchange between teachers and students, cultivating students' autonomous learning awareness and habits. Network course which is based on the multimedia network technology has the characteristics of interaction, integration, network, can greatly convenient to create learning situations, enrich and expand the connotation of classroom teaching, promotes the development of learners' creative thinking and creativity, thus optimize the process of learning, the learning effect is better.

The Problems Existing in the Network Course Application

The guiding ideology of the network course construction and application is that with the scientific development concept as a guide , based on the trends and characteristics of the development of educational theory and teaching practice , consider on the successful experience of domestic and foreign , military and non-military , make the students quality education and training as the main work , reform and implement the reform of the teaching mode , establish talent training mode combine with initiate knowledge, cultivate capacity and improve quality, rebuild the students quality connotation and talent standards , establish the human quality concept of comprehensive development , on the basis of professional education, pay more attention to the ability of acquire knowledge on students 's own initiative , a positive attitude , realistic and innovative spirit , strong sense of professionalism and sense of social responsibility culture .

Our school construct network teaching application system in 2004. Network teaching system plays an increasingly important role on carrying out the network teaching and the management of teaching information resources. The change progressive realize in the teaching content presentation, the way of students learn, the way of teachers teaching and the interact between teachers and students. The system give full play to the advantages of the network teaching, and provide a variety of educational environment and powerful learning tool for student learning and development. The system has powerful information resources management and network course construction, the network course constructed through the system platform can apply in the teaching practice. We found that network course teaching application have the above advantages ,and indeed improve the classroom teaching quality a certain extent, enrich the teaching information resources, strengthen the interdisciplinary information resources and teaching achievements sharing, reduce the burden of

the teacher collected all kinds of information resources, improve the students' study effect, but there are also some problems affecting the practical application effect, and has universality.

A. Teachers and students rely too much on the network course teaching, lead to the imbalance of teaching and learning dynamic system.

Teachers rely too much on the network course teaching, lack of personalized and diversified teaching methods, causes the single teaching mode, influence the enthusiasm of students' independence learning; and students rely too much on the network course, produces inert ideas in the traditional classroom learning, consider that "with this new network course learning mode, listen to or not doesn't matter in the class, then learning online after class has the same effect ", ignores the teacher's leading role in classroom teaching. The above two situations will directly affect the balance of teaching dynamic system, so as to reduce the effect of network teaching application.

B. The application which is applied in the network course teaching interactive is inadequate.

Network course should consider the interaction tache in the teaching design, but network course interaction mostly embody in the student send emails to teacher, teacher ask suggestions which the learner have about the network course, rarely involves the interaction between students and students ,teachers and students , such as course discussion, answer questions, etc, thus communication characteristics can't bring into play fully of the network itself .

The Application Countermeasures and the Point should be Pay Attention to

A. Teachers should transform education concept, build up their lifelong education thought

"Educators first is educated", teachers should set up the lifelong education thought, insist on lifelong learning, constantly enrich their own knowledge reserves, actively adapt to the change that the new technology such as network technology, multimedia technology brings to the modern teaching, and translate it into teaching productivity, to adapt to the vigorous development of the modern education teaching needs.

B. Strengthen the education of the information technology, improve the ability of network course application

At present, most of the network development is based on a specific network course platform, in order to get the most out of online courses system platform, improve the teaching quality and efficiency , the teachers and students should be familiar with the use of the system platform and operation skills. Schools can train teachers and students regularly through the functions department of the education technology training system, and constantly improve the level of information technology and modern education technology level, strengthening the network course application platform operation ability.

C. The teachers participate in the network course development, organic integrate teaching design concept

Teacher should participate in the network course from the course planning to the resource configuration, teaching organization, until the teaching evaluation and so on each link. Teachers actively participate in the network course development process, is also the teaching design process, and it can change the traditional classroom teaching mode, used to teaching under the network environment.

D. Leading students learning dominated by teachers, promoting student learning as the center of students

The classroom teaching based on the network course is not obey their teachers, students learning without autonomy, passive learning status, but teachers adopt class organization form and strategy

corresponding network teaching, promoting the student fully participate in study. In order to further improve the students' network learning ability, we must reform the cramming teaching mode, adopt heuristic teaching, autonomous learning, cooperative learning, task driven teaching and a variety of ways, change positively in the teaching process.

E. Using the network course to carry out classroom teaching should be appropriate, timely and appropriate

Using the network course in the teaching, the first we should not carry out all work relies on the network course teaching system, because the network course after all is a kind of teaching assistant system, it still cannot completely replace the teacher's classroom teaching effect. In teaching practice, network course application mode and the teacher's explanation should be link up with the student's vision, hearing and thinking for right amount, it can't against students cognitive law, essence is to solve the problem of organic interaction of the teachers and students in the network course.

Conclusion

Network course application in the teaching is a complicated system engineering. Its theory research, technology progress and practical application are closely related. Network course application in the teaching is a more important new kind of thinking ability training, an advanced consciousness strengthen, the cultivation of exploration and innovation spirit. For network course teaching application ,we need to constantly expand thinking, enlighten thinking, in order to achieve the teaching effect optimization.

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