Analyses of the Development and Application of Specialized Courses Network Teaching Pattern in Petroleum Engineering in Colleges and Universities

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Abstract

The 21st century is the era of information technology, information high speed development and global popularity, which will be a great driving force for the development of human beings, the progress of human civilization. Since human beings entered the 21st century, the internet has become one of the most significant signs of the information age. The internet has covered the human life in every corner of the society, which makes our work, life and study more colorful. As one of the most important part of society, colleges and universities cannot get away from the Internet. The network teaching pattern develops on the basis of the traditional education pattern. As the supplement of traditional education system, the network teaching system has made great contribution to complete and develop the higher education system. This article mainly summarizes the recently ways of network teaching system and points out some disadvantage of network teaching system and gives some methods to solve these problems.

Keywords: network teaching pattern; traditional education pattern; education system; the quality of education

Introduction

Since we enter the 21st century, our human society is entering into a new era of information network with the great development and invention of computer and information technology. And the internet becomes one of the most significant signs of the information age. Owing to the appearance of the internet, the dream of shared the
international and global resource and information has come true. We can say that the internet has covered the human life in every corner of the society, no matter work, life or study, we also cannot get away from the internet. We use the internet to collect the more information materials about work, useful learning resources and comprehensive materials of life. The internet, we may say, speeds up the pace of development of human society. As one of the most important part of the society, colleges and universities cannot get away from the internet[1~3]. The tenet of colleges and universities is “impart knowledge and educate people” and “people first, everything for the students, for all students, in order for all students”. To cultivate well educated competent people, colleges and universities should perfect their education system according to the characteristics of all times. In this popular network information age, colleges and universities should develop the network teaching pattern on the basis of the traditional education pattern. As the supplement of traditional education system, the network teaching system has made great contribution to complete and develop the higher education system, and improve the teaching quality a lot in different aspects.

In the modern society, the competition of talent resources market has become more and more fierce, and the competition between enterprises has also become more and more fierce. It is who can take control of more information that who can lead the edge. Every company calls for high qualified talent people, which have made it more difficult for a college student to find a job. And this bring about two influence: on one hand a college student cannot bear the stress and lose in the competition; on the other hand a college student turns the stress to power and encourage himself to learn more knowledge and skills to improve himself so that he can be the best in finding the job. To cultivate a high qualified talent people depend on both traditional education system and the modern network teaching system. The trait of the network teaching system itself can help this part of students to use their go-ahead's and positivity and play a great role on cultivating their scientific research ability, practical ability, innovate ability, and make the students combine advanced technology and information.

**Development of Network Teaching Pattern**
The modern network teaching system plays a more and more important role in education system. According to the courses itself, or the way it is organized, or the standard of the students, we can divide the modern network teaching into three parts as follows[4~7].

**Entireness Network Teaching.**
This way is better for distance learning courses. In the modern society, many people calls for further education, correspondence course and so on. But they don't have enough time to have class in schools, so they use the network teaching to study at any time and complete the study task. In the network teaching, the communication between students and teachers or between students and students are totally through the internet. There is no communication face to face, so there is no emotional communication either.
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Watching Courseware and Video-on-demand is the Core While Teacher Guidance is the Complement.
This way calls for the teachers to have organized courseware and video-on-demand of their courses according to course outline, teaching plan, lectures. Then they put the courses on the internet so that the students can watch or download the courses. The students can decide what they study according to their own abilities and finish the study task with the help of the teachers. They can also commute with the teachers through BBS, QQ, MSN and ask some questions. The teachers answer the question which the students ask and public the questions in common to every students. This way is better for the courses which are lacking of teachers but the students have to learn. Watching courseware and video-on-demand are the core while teacher guidance is the complement. The teachers are mainly to answer questions of students in face-to-face instruction. In this way, there is more communication between students and teachers, but there also calls for more in hardware.

Face to Face Teaching Combined with Network Teaching.
In this way, it must be sure that the students have enough time to have class in schools, which is common used in full-students. Currently it is mainly used in higher education. The teachers use the method of multimedia and handwriting to teach the students by personal example as well as verbal instruction. Handwriting is used to express the main content of courses, while multimedia is used to show the assist content related to the course, such as some charts, photos and videos and so on, to improve the students' perceptual knowledge and understanding for the content of this course. That can achieve a better result. This way is not only to teach the students some knowledge; it can also teach the students how to be a good person in morality and quality.

Application of Network Teaching Pattern
But the result of network teaching is not optimism, there appear two problems: on one hand some schools ignore the imports of network teaching and continue to use the traditional education, which have a bad influence on improving the quality of educating. On the other hand, some schools emphasize too much on the network teaching, as a result the way doesn’t play a role in educating. What is worse, it plays a bad role in education. If we pay much attention and ignore the traditional education, it is sure to have a bad influence on education and leave the students in an embarrassing situation[8~10].

Nowadays some students are used to studying under the monitor of teachers and parents. What is worse, some students even don’t know how to study unless they are asked to. When students enter the university, there are no parents or teachers monitoring them. Under this circumstance some student may don’t know what to do. These students may lose themselves in the modern world and abandon their school work. Therefore the teachers should take control of the students spare time and teach them to take advantage of the network teaching system, learn more knowledge, pass the exam, get a high grade, and at last they can finish school smoothly. The network teaching must be connected with the traditional education methods. The traditional
education pattern is the core while the modern network teaching is the complement. We use the network teaching to make up for the deficiency of the traditional education methods. They can be used as a whole so that the education level can be brought up.

Summary
In sum, as the supplement of traditional education system, the network teaching system has made great contribution to complete and develop the higher education system. But how to make full use of the network teaching, to make the students to be a better man in the society and play a great role in jobs are still need to be studied.

References