The Development of New Technology in Modern Distance Education

Dr.Jayanna.C.T

Assistant Professor

Abstract: Modern distance education is a new way of education derived from the extensive application of new technologies. With the development of new technology & media, distance education is also developing. This paper goes as follows: firstly, introduce the concept of distance education and the importance to construct a learning-oriented society & lifelong learning system. Then, expound the current status of distance education, pointing out shortcomings such as instable images, poor interactivity and unintegrated resources. Next, considering the superiority and development space of 4 new technologies-- Date Mining, Cloud Computing, Internet of Things (IOT) & Triple-Play, look forward to the prospect of new technologies application in distance education.

Keywords: Modern distance education, New technology

Introduction

Nowadays, new technologies have constantly sprung up. Human demand on education is increasing as well. Modern distance education is an important means to spread information, to learn culture and to construct a lifelong learning system in the era of intellectual economy; this new mode is gradually accepted. It promotes reform in educational thought, content & methods, greatly promotes the modernization of education, and satisfies increasing demand on improving culture cultivation. Mei Sun (2012) pointed out that student-centered and self-learning based modern distance education allows relative separation of time & space between students and teacher. Teaching mainly relies on use of various medium and interactive means.

Life is a journey of constant learning. Cultivating talents only from full-time school education can no more meet the needs of developing modern society, which requires everyone should have the awareness of lifelong learning. All learning has become an urgent need to individual and the whole society. People must change ideas to adjust to need of the age, constantly learn new things and make learning a lifelong activity. As tools of lifelong education, it's necessary to constantly improve modern distance education system, innovative education mode and integrate new technologies, so as to promote educational thought, content, method and mode change, which will deeply affect and better guide learning.

Current status of modern distance education

Now, we are in an information network era, characterized by diffusion and penetration of computers and Internet technologies. Rapid development of information technologies will significantly influence the learning environment. With the development, the forward-looking online education is becoming practical, which brings huge impact on traditional learning way. Judging from the development history, we generally accepted that distance education could be divided to 3stages. First is correspondence education stage. Broadcast & TV education stage follows, mainly relying on radio, TV, audio and video recordings. Third is modern distance education stage. Modern distance education is a new education form by using network, communication, multimedia and other information technologies to conduct education.

Current distance education mainly adopts computer multimedia technology on Internet. Internet is a global and highly efficient technology in teaching transmission. Its resource sharing can achieve data transmission and interaction across time and space, which greatly supports modern distance education and training. Distance education provides new educational opportunities to those who can't go to school for various reasons. It is widely accepted by people as a new way of learning. It plays an important role to promote the development of our modern education. However, distance education is still in its infancy and limited by various conditions. There are still certain problems and deficiencies in its development.

New technology as the driving force of modern distance education development

In recent years, Information Technology, Network Technology, Sensing Technology is developing very rapidly, represented by Cloud Computing, IOT, Data Mining and Triple-Play technologies. These technologies are strong bases of modern distance education and driving force for further development. Then analysis the prospect of modern distance education in terms of Data Mining, Cloud Computing, IOT and Triple-Play technologies.

Abundant information resources are the core and base of modern distance education. Depending on modern network, these huge amounts of information sources provide convenience for modern distance education; while at the same time, bring difficulties in information obtaining, gathering, classifying and other problems. Supposing the situation that we need to make a survey on learners' satisfaction. Traditionally we use statistical analysis methods such as questionnaires to obtain information, but it's time-poor and inaccurate and can easily lead to decision failed. With Data Mining technology, we can analysis existing data -- learners' behavior,

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