



# Design of Network Course of Modern Educational Technology

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**Abstract:** With the advent of knowledge economy, the society has higher and newer requirements for talents. The traditional form of education has been difficult to meet people's demand for knowledge, and the form of network education came into being. Its rise and development meet the new needs of talent training. Against this background, countries have started the construction of online courses and open resources. It is hoped that this study will play a certain reference role in the construction of network courses in other disciplines.

**Keywords:** modern educational technology, network curriculum, design

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## Introduction

The change of educational form is always accompanied by the main line of the times of "technological development". The development of technology will always drive the change of educational form, and the introduction of technology is based on meeting the new teaching needs. The network curriculum born to meet the needs of education and society has been branded with the brand of the times. In recent years, the state has vigorously promoted the implementation of network curriculum construction, and the network curriculum represented by national excellent curriculum has developed rapidly. At the same time, we should also see the shortcomings. it can play a certain reference role in the construction of network curriculum in other disciplines.

## 1. Preliminary analysis of modern educational technology network course

Modern educational technology is a public course for students of various majors in normal universities. It plays an important role in improving learners' educational technology ability and promoting teachers' professional development. This course aims to improve learners' theoretical knowledge and technical skills of educational technology, cultivate learners' modern educational technology ability, improve learners' information literacy, help teachers and students adapt to the development trend of educational informatization, optimize teaching process, and improve teaching quality and efficiency.

## 2. Network course design ideas of modern educational technology

### 2.1 Emphasize the design of learning resources

Pay attention to the design of learning guidance resources. Learners understand the overall framework, overall objectives and overall structure of the course through learning guidance resources, so as to provide necessary cognitive preparation for course learning. In the construction of modern educational technology network curriculum, in addition to paying full attention to curriculum resources such as chapter catalogue, we should also pay attention to the design of learning guidance resources such as learning methods and teaching arrangements. Strengthen the design of curriculum resources.

### 2.2 Emphasize the design of learning activities

From the existing analysis of online courses, it is not difficult to find that the current presentation of learning resources of online courses is quite rich, but it still continues the linear arrangement of traditional textbooks, the internal relationship of learning resources is not strong, and the content is separated into blocks. To organically integrate these scattered but rich learning resources, the design of learning activities is essential. Various resources integrate all parts of the curriculum into an organic whole around the center of learning activities. This fully reflects the main position of learners in the learning process, actively guides learners to actively participate in the learning process, and reflects the process of learning.

### 2.3 Emphasize the design of learning environment

Many online course websites have complex resource structure and complicated function design. Although the module division is very detailed, many of the contents are very repetitive. Some online courses show the same teaching content in many ways. Although it enriches the expression forms of the course, the complex and cumbersome design causes fragmented and disordered

information distribution and disrupts the learning ideas of learners, distract learners' attention and greatly reduce the learning effect. Therefore, in the design of network course, we should pay attention to the simplicity of course structure and function.

### 3. Design and application of activity-based network course of modern educational technology

#### 3.1 Organization of learning content

The organization of learning content is the total engine of online courses. Whether it is the development of learning resources at the technical level, the design of learning activities, or the arrangement and construction of learning support environment, it is based on learning content. In the teaching process, we should start with the learning content, select the technical presentation according to the situation of each part of the teaching content, design the learning activities and build the teaching support environment. This arrangement helps learners to grasp the teaching ideas and reflects the characteristics of the discipline of modern educational technology.

#### 3.2 Presentation of learning resources

Learning resources are an important factor in the teaching process. With the vigorous development of technology, various resources in traditional education have also appeared in various digital forms. From the perspective of function, although the information-based teaching resources in the network curriculum are the extension of the traditional teaching resources, they are still different in many aspects. The construction of traditional resources is mainly designed for teachers and professors, while information resources mainly serve learners' autonomous learning.

#### 3.3 Construction of learning support environment

Navigation is the "GPS" in the network course. The modern educational technology course has a large capacity and navigation design is essential. Otherwise, learners are prone to network trek. Many existing online courses have complex navigation design, and learners always "go the wrong way" in the learning process. With the increase of this number of wrong operations, learners' ideas are prone to confusion, which reduces the learning effect and interferes with the learning process. Therefore, on the premise of not affecting learners' use, the navigation design should be as concise and clear as possible, so that learners can master their "where they are". For the parts with more chapters, the course content can be displayed by means of illustrations, because unnecessary words are omitted. This kind of navigation is convenient to display the logical relationship of the course content and the knowledge structure is clear in the heart.

### Conclusion

the significance of network technology in the field of education lies not only in the change of media form, but also in the change of teaching relationship between people through technology. The innovation of this study is to focus on the design of learning activities and emphasize the application of strategies other than technology development. Through the design of learning activities, we systematically integrate various decentralized learning resources, give full play to the characteristics and advantages of network carriers, help students realize autonomous learning from the method level, guide learners to actively participate in the learning process, and cultivate and improve learners' thinking ability, inquiry ability, innovation ability and reflection ability, It has a certain reference function for the construction of network courses in other disciplines.

### References

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- [1] He Kekang, Zheng Yongbai, Xie Youru. *Education system design*[M]. Beijing: Beijing Normal University Press. 2006, 310, 70
- [2] Luo Mingdong, He Xueren, Li Zhiping, Xie Jili. *Fundamentals of educational technology* [M]. Beijing: Science Press. 2007, 118-124, 127.
- [3] Jing Yuzhi. Design and development of network course of fundamentals of computer application [D]: [Master's Thesis]. Hohhot: Inner Mongolia Normal University. 2009.
- [4] Ma Nan. Research and practice of network course — taking advanced programming language (Java) as an example [D]: [Master's Thesis]. Beijing: Beijing University of Posts and telecommunications. 2009.
- [5] Roblyer, M.D. Wiencke W.R. Design and use of a rubric to assess and encourage interactive qualities in distance education. *The American Journal of Distance Education*. 2003, 77-98.
- [6] Wiggins, McTighe. *Understanding by Design*[M]. Alexandria, VA: Association for Supervision and Curriculum Development. 1998, 9.