

# A Comparative Analysis of the Practical Teaching Effect of Online Courses

**TaiHua Wang**

*Hennan Polytechnic University Jiaozuo, Henan 454000, China*

**ABSTRACT.** *On the basis of full investigation, this paper compares the traditional teaching method and online learning method from many aspects and angles, discusses the differences and advantages and disadvantages between them, in order to open up a new field of teaching, enrich teaching theory, and provide theoretical enlightenment and empirical data for teaching construction.*

**KEYWORDS:** *Online learning, Classroom learning, Traditional teaching, Innovative education*

## 1. Introduction

With the advent of the information age, network technology, modern information technology, media technology continue to innovate, network learning has become a daily learning mode, under the support of wireless high-speed network technology, learning has been ubiquitous. At present, all kinds of full-time schools at all levels in our country take the class as the unit of curriculum classroom teaching to occupy the leading position. Teachers and students teach and learn in a fixed place. Now the students of higher vocational colleges are “post-90s”. Generally speaking, they have a strong interest in modern information technology, and are used to learning on the game and interactive platform, which is suitable for the ubiquitous learning environment, The coexistence of individualization and socialization, participation and cooperation in ubiquitous learning are in line with the learning characteristics of contemporary vocational college students, which can make up for the lack of interaction and vividness in traditional classroom teaching, and help to improve learning interest and learning efficiency. Therefore, recently we have made a survey on online learning of teachers and students in the school. Teachers participate in real name system, most of them are grade two students and young teachers, and some of them are middle-aged and elderly teachers. The survey information comes from the secondary college, covering all majors, which can truly reflect the impact and actual situation of online learning on teachers and students, so it is more authentic and reliable.

## 2. Comparison between Online Learning and Classroom Learning

Traditional teaching is face-to-face teaching, students and teachers have no sense of distance, teachers can also more directly understand the learning state of students. Online learning can be illustrated with both text and pictures. It can make use of autonomous learning after class. The time is flexible and problems can be solved in class. The results show that many teachers and students think that online learning and classroom learning have their own advantages, and they will coexist. This shows that when developing courses, the college should not only consider the application of traditional teaching, but also consider the application of online learning, which makes it necessary to consider the characteristics of various teaching methods when designing and developing courses and platforms [1].

## 3. Online Teaching and Traditional Teaching Role Transformation

Online learning is a more technical learning method. Teachers can impart knowledge through online education. Some teachers who have just come into contact with online teaching have some difficulties in making online courses. Some of them have a little understanding of online education, so they tend to apply their traditional teaching methods to online teaching. Copy the interaction, activities and events in the traditional classroom directly to the online. It turns out that this is unreasonable and unrealistic. Although there are many similarities between online education and traditional classroom teaching, they are different for students. For example, the role of teachers is not the same: traditional teaching is student-oriented and teacher-centered. And online teaching fully embodies students' autonomous learning. These differences mean the trend of teachers'

relearning. Teachers need to change their teaching style, learn new technology, use different teaching methods, master design methods and develop teaching tools, and change from “Teacher centered” methodology to “student centered” education concept [2].

#### **4. The Main Differences between Online Learning and Classroom Learning**

##### ***4.1 Differences in Learning Environment***

Compared with the traditional classroom learning, the online learning environment of students may also be in the same “room” with other students who study the same course, but the online learning of students is an independent individual behavior with relatively free time. Therefore, teachers must take this online environment into account when designing courses, for example, isolated state, appropriate incentives, learning feedback, etc. Namely: make online teaching more humanized and personalized. It is very important to establish education and learning in a way that can contact and avoid students' aversion to learning. Online teaching methods provide a unique environment for teaching and learning: the most important is the transformation of time and space, time and role of teaching communication. In addition, setting a deadline can effectively prevent students from falling behind in learning [3].

##### ***4.2 Differences in Teaching Types and Teaching Tools***

The types and tools that traditional teaching can use are limited to text, picture, PPT and multimedia classroom. However, through online education, teachers have the opportunity to use micro class, MOOC class and other various network ways to tell stories, attract students, and establish friendly relations with students. For example, it is very important for students to use audio and video to enhance the human feelings of the classroom, and to use online or internet properly and timely. The content presented in different ways can increase the value of the course and provide students with experiences they can't get from other places. Compared with the traditional teaching design and learning theory, the importance of getting correct and visual information in online learning is beyond the limit [4].

##### ***4.3 The Difference of Teachers' Lesson Preparation***

In online learning design, teachers' curriculum design requires higher technical requirements and knowledge, including many aspects, such as: layout of online learning courseware; typesetting design, including font style and size; color and structure of each part; marks, icons, symbols and pictures in courseware; animation or video; sorting among different parts of courseware content, etc. These contents need to be designed, produced, videotaped, typeset and tested for learning effect. For teachers, we must accept new things, strengthen learning, innovative thinking, and strengthen the concept of education [5].

##### ***4.4 Advanced Teaching Tools Contribute to Teaching Effect***

Illustrations and cartoons can improve the learning effect and have obvious effect. Speaking of teaching content in the form of audio can enhance learning, but the background concert is distracting; from a purely aesthetic point of view, animation, pictures, videos are much better than words and charts. As long as it can meet your teaching needs, it is enough to remove as much as possible the unnecessary parts that will distract students, and ensure that the information is clearly conveyed by making the content readable[6].

##### ***4.5 Advantages of Online Interaction***

Online learning pays great attention to communication. Unlike learning in a traditional classroom, online students can communicate with other students and teachers in a chat room, bulletin board, email or classroom. Communication through these ways is very important for effective online learning, because online classroom allows students to form a face-to-face place of social contact. Therefore, in order to make a successful online teaching, teachers should provide students with guidance on how to participate in the discussion of mutual evaluation and self-evaluation, and timely intervene when the discussion is not smooth or the topic is not appropriate. This will help online students form a social group and avoid the development of online learning into a personal behavior.

#### ***4.6 Differences in Study Schedule***

One minute in traditional classroom learning is not equal to one minute in online learning. For the same topic, online learning courses usually save time, because online learning can be completed through background operation. But online courses usually span a longer period of time. A knowledge point can be learned repeatedly. Therefore, it's better to divide the content into shorter parts. It's much better to explain one knowledge point at a time. Different from the traditional learning courses, the main purpose of short online learning courses is to meet the needs of modern students. It enables students to access small pieces of information through their fingertips anytime and anywhere, so the courseware cannot be too long, and the time arrangement cannot be too strict, so that students can use their spare time to learn, and can selectively learn the content they are interested in.

#### ***4.7 The Difference of Curriculum Content Environment***

Teachers can't simply transfer the learning materials in the classroom to the Internet. Although the goals may be the same, the ways of expression and communication are quite different. Learning content should adapt to online environment in process, flow, visual effect and activity. Adjusting the content according to the online environment also gives online teachers an opportunity to reexamine their curriculum design and rethink their curriculum strategies.

#### ***4.8 Differences in the Compilation of Course Content***

Compared with the traditional face-to-face teaching materials, optimizing teaching content on the website is a very different skill. Teachers must be aware that students are browsing pages and can present their teaching content by using attractive titles, bold or highlighted text, subtitles, lists, and short paragraphs. We think that the methods that can help teachers to create effective teaching content are: a) the color should be eye-catching, enough to improve students' attention; b) the content should be as clear and concise as possible, and the concise content can avoid the important information being submerged in a large number of words.

### **5. Conclusion**

We have made a comprehensive survey of online learning and online teaching of students and teachers in our college from different perspectives. According to the structure, characteristics, changes and influencing factors of students' self-confidence, we have obtained the current situation and development trend of online learning. The purpose is to open up a new field of teaching, enrich teaching theory, provide theoretical enlightenment and empirical data for teaching construction, which is of great significance to the development of human resources of students and the maintenance of university mental health. At the same time, it can also provide important enlightenment for the cultivation of students' sound personality and the development of individualized talent education, and it also has reference function and value for the improvement of students' quality in the whole college.

### **References**

- [1] Li Xuyun, Wang Linlin, Mei Ruhuan, et al (2019). Evaluation of learning effect of online and offline mixed teaching mode in physiological science experiment course [J]. *Basic medicine and clinic*, vol. 39, no. 12, pp. 1781-1784.
- [2] Xu Fei, Nie Zhiyan, Zheng she, et al (2020). Exploration and practice of quality online open course of immunology testing technology [J]. *International Journal of laboratory medicine*, vol. 41, no. 8, pp. 1011-1015.
- [3] Cai Rong, Wang Jiamin, Mei Wenhan (2019). Exploration on the reform of hybrid teaching mode of Biochemistry and molecular biology [J]. *Journal of biology*, vol. 36, no. 6, pp. 105-107.
- [4] Duan Hengpan, Hu Chengbo, Liu hongpan, et al (2020). Thinking on "online and offline" teaching mode of chemical experiment course [J]. *Modern salt chemical industry*, vol. 47, no. 2, pp. 71-72.
- [5] Han Xiaomin, Ma Yuying, Huang Shuzhen, et al (2020). Research on online teaching scheme of "PCB design and production" under the background of epidemic situation [J]. *Wireless Internet technology*, vol. 17, no. 7, pp. 80-81.
- [6] He Qing, Lei Hongyan (2020). Discussion on online and offline mixed teaching of computer programming course [J]. *Computer knowledge and technology*, vol. 16, no. 9, pp. 167-168.