

# The Thinking on e-Learning after Covid-19

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**ABSTRACT.** *During the epidemic, a large number of online teaching emerged and a brand new learning model grew up, this paper is going to talk about the role each platform and technology enterprises in China played in teaching and learning, the arguments about online classes in order to understand the development trend of online classroom in the context of big data and multimedia.*

**KEYWORDS:** *Online classes, Epidemic, 5g, Teaching, Learning*

## 1. Introduction

### 1.1 The Online Lesson

Online education is a type of educational instruction that is delivered via the internet to students by using their home computers. Distance learning is usually conducted by using one of these methods, or a combination of them: [i].100% Online Education - Fully-online degrees are earned with no required visits to college or university campus. [ii].Hybrid Education - Hybrid education allows students to pursue a combination of online and on-campus courses. [iii].Online Courses - While online courses may be part of a degree program, they can also be taken on their own in order to master a certain subject or learn a specific skill. [iv]. MOOCs - MOOCs, or massive open online courses, are usually delivered in lecture form to online “classrooms” with as many as 10,000 people.

The online learning courses provided by some education platforms has been existing for a long time, and they were mainly served as an auxiliary reference to student’s academic learning or a learning channel for people who eager to learn. Combining with modern technology, online education is promise to revolutionize the traditional face-to -face teaching model, and has been implementing progressively. If the coronavirus pandemic have made contributions to the education field, that would force the students and teachers to experiment with the in-depth online teaching at a magnificent scale. During the pandemic, all the courses are delivered via the internet-based platforms. It’s assumed that whether distancing education should be a norm in the future or not, we can derive lessons and experience to form a more comprehensive view about the future education model and come up with concrete methods to improve the the e-learning performance.

### ***1.2 The 5th Generation***

5G refers to the fifth generation of mobile communication technology. Unlike the previous four generations, 5G is not a single wireless technology, but a fusion of existing wireless communication technologies. It will introduce more advanced technology to support some services such as HD video, high-quality voice, augmented reality and virtual reality. In the future, 5 G system also needs to be fully flexible, with network self-perception, self-adjustment and other intelligent capabilities.

### ***1.3 The Performance in Time***

2020, the year of challenge has affected us emotionally and physically, This year, which is full of pain and sadness but also a era for us to be creative and innovative. This year has been very different and challenging for all of us as this epidemic has rendered us go through a lot, well it was the same with the students community.

The impact of the epidemic has led to the suspension of offline teaching methods and the rise of online education screen teaching methods. Due to the limitation of social distance, various countries started online teaching. In this special period, the flow of educational resources is accelerated and the traditional classroom teaching becomes no longer the only mode. China is one of them and also the first one to start it, a number of online media companies and platforms like Tencent, Ding Ding are playing really important role in this period, alleviating students and parents' concerns about academic study. As for online teaching, the popularity of online teaching, which once thought to be only a minority, has become so popular in this special period. It makes people think about the possibility after it, where is its future and how long will its adaptability last.

## **2. The Positive side of Online Classes**

As a new education mode, online teaching mode is not limited by time and space, There are various online teaching methods, which not only stimulate students' learning interest and enthusiasm, but also enhance the mobility of knowledge in online teaching. For students who cannot follow the learning steps of their teachers have found a new world to tap their potential for better study. they can look at or listen to the audio and video materials again and again with no misunderstandings or confusions about what their teachers are lecturing about mathematical formulation or a physics theory. It not only improves the utilization rate of education resources, but also makes the MOOC's slogan come true: There's no wall for students to learn"[MOOCA Chinese studying and resources sharing application]. Online teaching enables everyone to fully enjoy the equality offered by education, and we have the opportunity to access more educational resources. with the development of science and technology, electronic equipment has become more and more available to general public, which increase the education equity for students living in remote rural areas. they do not have to worry about if their academic performance would lag

behind other students who are prior to them as they have the chance to study online. At the same time, the network teaching, the novel way combined with the characteristics of the Internet, can make students know about the latest news during each classes. For example, 'hot words and videos' needed for China's graduate translation exam can be Shared online. Formal policy, through the multiple resource sharing on the Internet and online seminars, enables students to better understand the changes in contemporary real-time and international relations. Ding Ding, Tencent, MOOC, Super Star Learning APP and some other platforms in China provide a convenient way for online teaching, during which process, competition has occurred among these enterprises. This kind of competition is beneficial for the whole society. On the one hand, it has enhanced the quality and people's experience feeling of these apps .On the other hand, it has stimulated the innovation and creation of their core technology, making the world modern science and technology step forward toward a more edged level. Teachers and students can not only carry out classroom activities on it, but also do the exam on it.

By looking at the positive side, it is really useful and convenient to take online classes during this special time, it is widely acknowledged that this epidemic was not the thing that could be eliminated so easily and quickly thus taking online lesson was the best solution during this particular time as they make people comply with the social distance policy and also gave the access for Students to get large Number of educational resources as well. And the result of online teaching proves that this new education mode, which was moving from traditional 'lecture-listen' model in classroom, is full of unique vitality and the class time for students is flexible and colorful. The education equality can move a vast step ahead, for the learning resources of high quality is no longer restricted to particular regions, schools, classrooms and available to all students as long as having the needed equipment.

### **3. The Shortcoming of Teaching Online**

The network teaching mode is the extension and development of the traditional teaching in the Internet world, but its fundamental subject has not changed, and the emphasis is still on the combination of teaching and learning. Network teaching and traditional teaching methods have never been separated, and there are close connections and differences between them. However, network teaching, as a new educational model with the characteristics of The Times, has some problems which cannot be ignored.

Although online teaching is unlimited in time and space, we can still not deny that it does have a lot to improve. For example, the equipment of teaching hardware, the assurance of teaching quality, and the inspection of teaching effect. The teacher complained that the operating software system was difficult and inconvenient to control, which affected the class efficiency while It is also difficult for students to interact directly with teachers on the Internet, which affects the efficiency of learning as well. For example, not every student has computer equipment and the network connection has been a rough issue, It is reported that there was a girl who went to the top of the snow mountain to look for the Internet connection for online

classes in China. Furthermore, students cannot really concentrate on the online classes sometimes because it is easy to be attracted by something else. many parents complained that their children were playing video games or watching soap opera when they were out, which triggered their anxiety over the academic performance of the children. parents are also worried about the eyesight of their children as they stare at the screen for a long time every day. It is reported that an increasing number of the shortsighted close to one fifth of people under the age of 16 merely from January to June.

At present, during the fight against COVID-19, all kinds of “Internet +” online teaching are only emergency works aimed at restoring students' normal learning status. The teaching design, teaching methods, teaching ability and effective teacher-student interaction of high-quality online teaching cannot be achieved in a short time. At the same time, online teaching will also encounter some technical difficulties. Online courses have higher requirements on network bandwidth. When too many users use online courses, we could easily see the blocking and dropping of the line happen from time to time. There is a obvious lack of matched pedagogy method in the practice of e-teaching. the objective evaluation criterion for the effects of online live courses and the appropriate dimensional assessment criteria to describe the teaching quality have not yet been established, which caused the unsatisfied result from students.

It exerts great pressures on both sides of teachers and students. Teachers have to answer more discrete questions though typing and voice message rather than synchronously and collectively responding to some students. The younger students who are not acquaint with the digital equipment and easily distracted have to complete their assignments under the supervision of their parents. Apart from the flexibility, many students and teachers complaint about the discontented using experience bought about by e-learning.

The efficiency is at issue. Students may find it is hard to be concentrated and immerse themselves In learning materials without the stimulus of environment. The interaction of instant information is delayed in the process. Many students may find it awkward and embarrassed to ask teachers more questions after the class.

The learning efficiency may not reach the expectations the teacher and students hold which would undermine mine the? Underscore the performance.

Given the latest bloom of e-learning in China, the mode of online education in China is still in its primary stage: the class schedule and textbooks under the offline learning mode are simply transferred to the internet, and one-way cramming teaching is conducted for all learners without any differences, which lacks of talents, lacks of innovation, and most importantly, the serious lack of in-depth teaching and research in China's education and training industry. A problem that has confused students for a long time is that there is no supervision staff and mechanisms. some teachers who have no adequate work ethic will leave all the students studying on their own, which caused students acquired nothing from their teachers but learn the irresponsible attitude toward their future work and study. the shortage of corresponding teacher management committees to monitor teachers' teaching quality

is also the main reason why the repulsion of online teaching quality is always hard to say and why many students are not inclined to choose teaching as their future career.

#### **4. The New Future**

Online teaching is a brave practice. During the epidemic, the rise of online teaching is also an interesting phenomenon brought to us by the development of The Times. The current mode is full of challenges and also can bring us opportunities. With the arrival of China's 5G era, the maturity of Internet technology will certainly bring a new education mode, so the integration of traditional education network education should be a norm in the future. 5G will bring faster Internet speeds and more precise resource allocation to the Internet world, slowly solving the overall problem of teaching offline in today's epidemic. Times are changing fast, and even though there is some controversy about online teaching today, its future is still immeasurable. Today, 5G technology still needs time to develop, but there's a lot we can do before that. So I would like to give some suggestions about these problems to improve the efficiency of online classes. Firstly, the online teaching requires time control and good arrangement, it would be nice to schedule things clearly and precisely before any classes began. Secondly, it is necessary for every teacher to know and understand every condition of students to make sure that they could catch up with the class. Finally paying attention to the interaction in the class would be a good solution to solve distraction problems of students. If students can entirely cut down the face-to-face instrument of instructors and be replaced by the scenes on screen.

We are not to defend our current traditional education model or to boast the high value of technology, because the model of education is changed in accordance with the society's development throughout the history. To keep education on a par with ever-advancing modern technology, what could be considered at current stage, where the e-learning is still not mature enough and the capacity to cater for all the learning needs, is to figure out how to maximize the education performance by integrating the utilizable technology and the improving teaching model, or in other words, teaching methodology.

Studies showed that those who enrolled the online courses shared a high rate of dropping out of the courses and simply going through the motions to get a certificate. If learners don't have strong motivation to learn without the mandatory requirements.

With the advent of the 5G era, artificial intelligence, internet of everything, big data, information explosion and so on will build a new social ecology, and the demand for various talents in the new era will greatly promote the profound reform of education. 5G education is bound to achieve distance and real-time education and paperless education with diversified development of teaching methods.

Although the big picture of e-learning is beautiful, there are still some questions that should be considered. First of all, whether what role should technology play in the

education and how much it should be exploited in education? Unlike other fields that using advanced technology to sheer boost its productivity and upgrade structure, education's purpose suppose to lie the the wholesome development of students at it's heart. If focus too much attention on and attach too much expectation from the benefits of advanced technology could bring to education, and the truth is that Education relying on the best technology don't necessarily yield the best effect. It can hardly imaginable what the future school system will be like in the case of the deep incorporation of virtue reality technology and teaching, which seems to be the solution to bring a sense of reality in terms of time , space. But it is really truly the optimal design? Human is gregarious creature, the significance of real social interaction still vital. The shift from the entrenched university paradigm to an "Education 2.0" paradigm"-the revolution of access to online learning where outcomes can be documented through badges, certificates, placed in searchable digital portfolios, and discovered by firms and organizations seeking workers with demonstrated capabilities. In the vein, almost everybody has the possibility to get a diploma and the life learning can be secured. But whether it will lead to discrepancy among people who have varied motivations, the ability of self-discipline, dispositions, choices of appropriate curriculum, etc, is still at issue.

## 5. Conclusion

Online education is one of the many advances that technology and digital world has made available to us. To some extent the Coronavirus has forced educational skateboarding To revolutionize the way they teach and learn. It is very new and creative idea during this really special time which also needs time to prove its efficiency and value. Although we've benefited a lot due to this technology during the epidemi, we still have a lot of things to do and have a long way to go. But we need to be hopeful about the future as the 5G Times come, everything is developing and the world will be better and totally different in years to come. The concept of "Future School" will be developed and the tendency is unstoppable.

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