

Online Education Scenario in COVID-19

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ABSTRACT

COVID-19 as the name is telling a pandemic began with NOV-19. This pandemic started in Wuhan city that is situated in China and Dec 31, 2019, worldwide this pandemic is known to the world. This dangerous virus is called a CORONAvirus. According to the WHO report, 203 Countries and Territories are affected all over the world from 2020 onwards. The result was that all the MNCs, offices, business empires, schools, universities, wholesalers and retail markets, share markets, fashion shows, music concerts, etc. are closed. The roots of any country i.e. schools and university students are also facing difficult situations due to an enormous impact on the education system which is also affecting the future growth of the country. On March 11, 2020, WHO declared a high alert all over the world. For reducing this non-stoppable chain use of face masks, hand hygiene, self-quarantine, cleaning of surfaces, social distancing, avoiding public events, and public gathering is avoided. But our question is still pending, how students will be benefited during this pandemic situation, and how to overcome this loss. So, in this paper, we have discussed all the losses done during this pandemic and how to cover-up all and reach on top of the sky. UNESCO released a figure worldwide for 1,379,344,914 students who have affected studies and this is a very serious problem for upcoming decades.

Keywords: Corona, Self-quarantine, Pandemic, Unesco, Phygital, Mobiroom.

1. INTRODUCTION

As we all know COVID-19 is spread all over the world. Due to this pandemic, it has been affecting all the sectors like MNCs, offices, business empires, schools, universities, wholesalers and retail markets, share markets, fashion shows, music concerts, etc. It's going to mean a lot to things to us personally, professionally. As human beings, we have a tendency to interact with each other, etc. Then, how can we manage activities? At that time survival of people is too tough. But some will survive easily in this pandemic because they will do their work from home just like some IT professionals doing their work from home, but some don't have many options. Apart from these activities in the world each and every country faces a huge impact on their education system. Due to this pandemic, no one can open schools, colleges, and universities. Students don't focus on social distancing and they don't worry about hygiene. So due to these reasons each and every country has taken the decision to shut down schools, colleges, and universities [1][2]. But the biggest question is what is next? How can we train our future makers? How do our students adopt a new system that is totally different from their current system? What is the trust factor for that type of education?

Such types of questions arrived in our minds. And if we see whole world Data regarding. Then UNESCO declared all over the world in 165 countries have 1.5 billion students and they are shut down due to COVID-19. So they explore a new way of teaching and one mode is called online teaching.

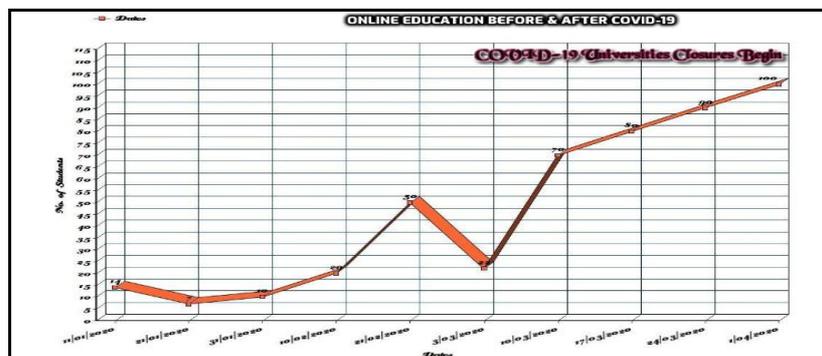


Figure 1 Online Education Scenario before and after COVID

In the above graph (figure 1), you can easily analyze that due to COVID most of the students move forward to online learning. The graph is exponentially increasing when the COVID impact increases. Here x-axis shows the dates and y-axis shows the number of students. In the mid of March, most of the students adopt online learning [3].

But is this mode of teaching satisfying to both scholars and professors? Same this type of problem faced day by day and except online learning no other solution we have ever seen. This big step i.e. online teaching is taken. Because in the mid of March most of the institutes are shut down due to COVID19. After waiting for 15 days no situation is seen for reopening [4]. Some countries have been working on an online education system over a decade. But the adoption of the system is in very low percentage and people need to attend classes physically.

2. PHYGITAL:- Engine of Physical & Digital Education

Let's start with a journey. Which I believe is next to normal or a new normal, coming back to in its sense and called PHYGITAL world. You know, the World Economic Forum says that there is no return after COVID. But there is a path forward, and I think that is going to redefine normal scenes. In the future, we normally see in the world combination of a DIGITAL and PHYSICAL system. Now onwards the whole education Eco-system is shifting towards the digital mode from in schools to universities. In the present session from July, all the classes are online and exams also [5]. Now, most of the students have started taking classes online. Is that going to be next to normal for us? But I think this is just the start of a very-very different world. That's what we look for and something that we have to adapt to and we have to be adopted to sustain and grow to and this world is a combination of physical and digital [6].

How is going to be different, I think no one can know about it but I think we have an idea of how a world is going to be looking at PHYGITAL. For the next two years, I am specific to higher education, now we are going through a lot of changes. Educational institutes are trying to find the best entire solution for going to PHYGITAL [7].

We can probably have a very visual imagination of a PHYGITAL world that is going to be and this is going to be a student in that PHYGITAL higher education space. The world around us students is very different. The world of learning is going to be very -very different and the new normal world is very different from the student because the student is the center of a university or an educational institution. It's going to be very different from all of us. The next frontier of innovation starts from inside the classroom. And believe me, this is where the whole world (Physical and Digital world) will converge is very-very different from what you have seen. Till now thousands of years of the education system in India are going to be very-very different [6]. In that positive aspects of physical experiences will integrate with the useful opportunity offered by technology or what we called the digital world. It's going to be the synergy between realism, virtualize, and yourself. Now, the real-world experience will become more engaged with this digital teaching practice. In the real world scenario, thanks to interactive mobile technology or any technology, this enhances mobility.

3. The classroom is now MOBIROOM (Mobile classroom)

When learning is meant not for acquiring knowledge but to groom one's innate talent, it is not an easy task. You know a few years back what you have seen in the education system. Your classrooms are to be integrated with your mobile devices or a laptop or a tab. The learning is going to happen in a very-very seamless manner, blurring all boundaries [7]. So learning is very seamless through the experiences, that is why educators are not going to be more called educators. Now they are called learning experience designers. During learning, we will experience blurring of all boundaries, technologies for learning. Access to high-end technology: the joy of learning is going to be augmented. When technology is going to be learned in every aspect of learning. Then we move with augmented reality and virtual reality [6] [7].

The blurring of the physical and digital world is what we called the PHYGITAL world. How it is going to impact the higher education system. The impact of the education system is huge. Every one of us will have to invite that change. Some will have to face challenges in these but they will have no choice. Colleges, universities have gone through multiple periods of change and transformation since there was an emergence almost 1000 years ago. Each time institutions have adopted the changes and survived. The diagram below shows that in the past, we have a traditional way of teaching and now we are shifting to digital world and everything is moving towards it.

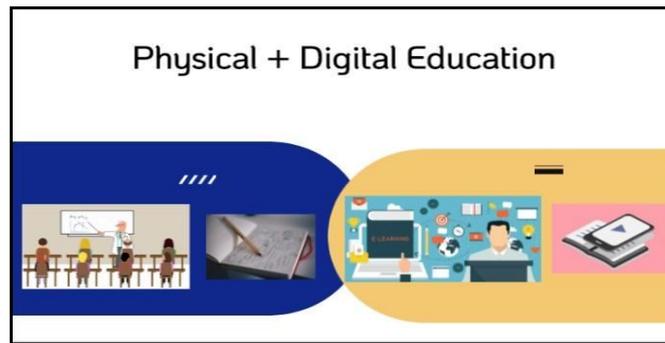


Figure 2 Moves on PHYGITAL Education

This change is going to be the very first step to consider as normal. You remember the old library that is no longer a part of the university today. These are some of the most deserted spaces in university today because of technology. This online mode is going to be in the next classroom (From Physical Campus to online degree) [7] [8]. There is going to be an emergence of online degrees which are physically tied, which have a combination of a physical to digital. This is going to change the ideal framework for higher education institutions to embed PHYGITAL strategies.

4. Trending Changes in Higher Education

S.no	Changes in Higher Education	S.no	Changes in Higher Education
1	Integrated Learning Solutions	9	Personalized Learning
2	Faculty Up scaling	10	Formative Assessment
3	Digital Ethics and Privacy	11	Artificial Intelligence Learning
4	Augmented Reality	12	Wireless Presentation Technology
5	Internet of Things	13	Bite-Size Learning
6	Online Education	14	Block chain Technology
7	Changing Role of a Teacher	15	Smart Spaces
8	Smart Campus	16	Nudge Tech

All of these you heard, but you know this is the slow change that could happen in the entire COVID scenario and the world will be changed. Such trends are going to come much-much faster like a Meteorite. You have no option to adapt to all these changes happening in the higher education skills [9]. Most of these technologies must work together to make sure timely, personalized interaction with teachers, students, staff, university stakeholders, and this is a whole new ecosystem. Some of the description you see in the education system is going to be very-very different that you probably have never seen. The classroom as you see it today will cease to exist right in front of your eyes. This is going to change the whole infrastructure which is called walls in a classroom. The walls of your classroom that you see around you are going to be changed. They will no longer play a separation role you had between classrooms. From blackboard and chalk, go through a whiteboard and digital monitors, and this era is called interactive walls. Now the walls of your classroom speak to students. Students are now attending classes through mobile phones and they are free to move around the world. By using augmented reality is going to download the content; students have stored the content into digital devices. Another thing that changes inside the classroom is a seating desk. The desk is going to evolve today. You have a wooden desk. Tomorrow these desks are going to evolve or part of the PHYGITAL revolution in the learning space. These desks will evolve and become interactive devices and help students to submit their work, assignments, homework everything to a cloud-enable system, or cloud accounts. Teachers can access to guide them whenever they need [9][10].

5. For sustainability need education

Till now, everybody talks about sustainability. Every area of a work education has the power to lead sustainability. Education of the future will have the power to lead the way and become a place. Where learning to live in a sustainable

way is very important. It will lead to sustainability and shows acceptability all over the world. The technology will help youngsters understand this and follow the path.

6. Virtual labs are an impressive learning

Universities are already talking about and implementing virtual labs. Students can access these virtual laboratories from any device. Tomorrow these virtual laboratories are also going to change immersive learning experiences called Holograms. The next couple of years require virtual labs and learners get to see touch experience through it. What a show in labs in a more authentic way to the learning becomes more immersive. Holograms can help to make this happen, by engaging learners' attention and providing them to better content literally imposing them into that content. This is going to be the next lab and used in the future. They're going to be called experience centers and even students can see on the screens. Even students can see on your screen, and students will not be even physically available there. They would probably be using virtual reality classes. This is two-year beyond were you standing today [9][10].

7. Universities looking for some strategies

In the first two years, they want to move beyond physical strategies. They're going to build a digital infrastructure to implement the services. Everything that you have access to the university is going to be a digital form. University will start collecting data, processing data, analyzing data, and using it for better forecasting. It will take better decision making, for better evaluating the learning outcomes. Learning is going to be all through digital experiences. Now, your building physical space will be going to reduce and replace future-ready structures enabled with technologies, instead of brick-and-mortar structures [11]. Resilience, from a student's perspective, from a university perspective, from the ecosystem perspective is going to be built like never before.

8. Conclusion

Due to COVID-19, the lockdown is increased day by day; due to this education, society is not prepared for that. Schools and universities are facing a major interrupt in students learning. We have one solution i.e. PHYGITAL education already discussed in this paper but I think one more solution is there i.e. Flipped Classes concept. This flipped class concept and it will be one of the solutions for the future. But still, each and every platform is in the initial and immature state. Furthermore, research work is required to implement it and to rectify the issues at the student's side.

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