

The negative effects of COVID-19 online learning on staff and students in comparison to other learning methods

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Group 2

Introduction

Online learning is quite limited to what it can teach compared to traditional in person classes. COVID-19 online learning classes were quite ineffective when it came to teaching students. Students were negatively affected in various ways due to learning online due to COVID-19. Teachers were also severely affected by teaching in an unplanned online environment as well as having to deal with external factors that could be affecting their personal lives.

Group Thesis

Online learning is a tool that can be utilized but COVID-19 online learning had serious flaws that made the effectiveness of learning much worse than traditional online classes.

Outline

- I. Intro to COVID learning effectiveness (Leslie Williams-Hing)
- II. Disadvantages of Online Learning During and After The Covid-19 Pandemic (Luke Katzaman)
- III. The Effects of Virtual Learning Due to COVID-19 on Students and Education (Nicholas Samonte)
- IV. How Online Learning Affected Teachers During Covid-19 (Julian Samonte)
- V. Rebuttal (Jaylon Riddick)



The Disadvantages of Online Learning During the Covid-19 Pandemic



By: Leslie



Covid 19 Affected Education Around The World and Lacking Physical Component in Online Learning

- Learning curve due to limitations in teaching students important and required material
- Uneffective in maintaining student attendance and academic integrity
- Lack of physical consultation and practice
- Students gain a lower attention span and are more likely to plagiarize

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Figure 1 & Figure 2

Advantages, Limitations and Recommendations for online learning during COVID-19 pandemic era

Flexibility	Remote learning	"It is useful in distant learning and during COVID-19 situation we can continue our education system."
	Easy administration	"Our teacher has authority to transmit our voice and video and can see and check whether we are listening attentively or not."
	Accessibility	"The students who are not teach confident, they contact through the WhatsApp easily."
Student-centered learning	Comfortable	"You can easily and comfortably listen to the lecture and learn."
	Self-directed learning	"I think eLearning is making good students more active and self-directed."
	Asynchronous learning	"Second thing is that lectures have been recorded and will be uploaded soon. It is easy for us to go back and go through the whole video for a summary or even rewatch it."
Inefficiency	Unable to teach skills	Limitations "In anatomy, the study through models was good. But hands on training is not possible, the student will not be able to understand properly. Skills need actual hands on training."
	Lack of student feedback	"I find it annoying that during lectures you don't have students feedback whether they are getting the point or not."
	Limited attention span	"There is no continuity of lecture. I've lost my concentration, and the video is so lengthy."
	Lack of attentiveness	"As the students know that they will get the recordings, they don't listen to the lecture properly."
	Resource intensive	"Lots of people might not be having these gadgets. Buying these gadgets comes an extra burden on them in such stressful situation."
Maintaining academic integrity	Lack of discipline	"There is some problem coming with discipline, some students use to misbehave during lecture."
	Plagiarism	"As this system is new to everyone, it is difficult to have individual assessment. During assignment, they easily copy paste stuff from web."
Teaching and Assessment	Reduce cognitive load	Recommendations "If you try to fit all the LCNs in 40 minutes, then the interaction will not be possible."
	Faculty development	"But we have to work with modality which institute has decided and using. But there is need of throughout training session."
	Increase interactivity	"I've should interact with students who are not active listeners. The student interaction is only through the assessments and we will be able to assess the students."
	Incorporate CBL	"Case based learning is very important. It is the doest thing to the practical life. Making it easier, rather than making it complicated."

Nursing students' attitude on the practice of e-learning: A cross-sectional study

Advantages	Frequency	Percentage
Ability to stay at home	339	72.1
Classes interactivity	68	14.5
Ability to record meeting	179	38.1
Comfortable environment	156	33.2
Remote access	42	8.9
Reduce the cost of accommodation and transport	241	51.3
Learning in your environment	1	0.2
Time-saving	1	0.2
Helps to screenshot many beneficial slides	1	0.2
Disadvantages		
Reduced interaction with patients	259	55.1
Poor learning condition at home	185	39.4
Lack of self-discipline	112	23.8
Reduced socialization	103	21.9
Internet problems	384	81.7
Technical issues	308	65.5
Poor interaction with facilitators	213	45.3
Eye problem	1	0.2
Multiple response		
https://doi.org/10.1371/journal.pone.0253651.t002		

Fig 1 illustrates the comparison between traditional learning and e-learning. E-learning was

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Technical Difficulties Using Online Resources and Lack of Communication between Students and Teachers

- There can be problems with wifi, connection issues with Zoom, and server problems with Canvas
- Poor learning conditions for students led to problems with maintaining discipline, less social interaction, and poor interactions with teachers and instructors.
- Students are less inclined to ask questions or help for an assignment
- Teachers are less enthusiastic to teach because looking at a screen all day can get tiring

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COVID-19 online learning effectiveness

My overall portion of the research covered COVID-19 online learning effectiveness compared to traditional online learning.

Why was COVID-19 online learning ineffective?

- Lack of motivation due to lack of structure
- Lack of interaction between students and instructors
- No time to prepare for a learning environment that was not in-person
- Inequality in hardware at home left some students getting less education than others (Zimmerman, 2020)
- Distractions at home cause a drop in learning and teaching effectiveness

How is traditional online learning different from COVID online learning?

- Traditional online learning has the same key aspects of COVID learning but utilizes them to turn them into quality performance.
- Interaction was key- When students interacted with other students or their instructor the quality of education was equivalent to in-person learning (Tsang et al, 2021)
- Motivation- Traditional online learning is a choice that can be made for education which means people are more motivated to learn
- Preparation- Online learning has a structured curriculum to get the job done specifically online

Key aspects of traditional online learning

- Mobile- Online classes are mobile and can be done anywhere the student is (Crompton and Traxler, 2018)
- Time management- Students can learn to build their schedule themselves to work with the current classes which is something that is not fully available with in person classes
- Technological and communication skills- Something that is specific to online learning is learning how to use software and communicate from a distance (Hoon et al. 2018)

How effective was remote learning compared to in-person learning?

The infographic shows the effectiveness of remote learning around the world.

Interesting fact: The United States is not number one in education. The United States ranks 40 of 72 in mathematics, 25 of 72 in science, 24 of 72 in reading. ("International rankings of the United States")

Slide Created By Luke Katzaman

Effectiveness of remote learning during COVID

McKinsey surveyed* teachers in leading OECD countries, plus China, for their views on the effectiveness of remote learning during school closures. Teachers were asked to reflect on their experiences in the first few months of the COVID-19 pandemic, scoring the effectiveness on a scale of one to 10. This infographic shows the average scores for each country.

Q. How effective was remote learning compared with in-person learning?

Scoring scale

1

Least effective

10

Most effective equivalent to classroom learning



*Total of 2549 teachers surveyed in October and November, 2020.

Image: Irina Adamovich/Shutterstock.

Source: Chen, L., Dorn, E., Sarakatsannis, J., & Wiesinger, A. (2021, March 1). "Teacher survey: Learning loss is global – and significant." McKinsey & Company.

Teacher

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Nicholas Samonte research contribution

For my portion of the research, I explored and discussed the effect of virtual learning on students.

Nicholas Samonte

Missed Academic Opportunities for Students

- When compared to traditional in-person classes, online learning has a lot less to offer in terms of content.
- The COVID-19 online learning courses were not very successful when it comes to instructing students.
- Due to COVID-19, students were negatively impacted in a variety of ways by online learning.
- Online learning was shown to come with many missed opportunities for anyone involved in an educational environment.

Nicholas Samonte

Loss of Experience for Students

- Statistics revealed that "the pandemic widened preexisting opportunity and achievement gaps, hitting historically disadvantaged students hardest"
- It is clear that the epidemic left many students with "unfinished learning" since they were deprived of the chance to study as much as they would have if they had had a regular education.
- According to data, face-to-face learning "leads to better academic outcomes, student engagement, higher rates of attendance, better well-being, and ensures access to school services and extracurricular activities" (US Department of Education).

Nicholas Samonte

Disadvantages of Learning Online for Students

- A large portion of students' disadvantages are, simply, the fact that they were not able to experience class in real life.
- The students who were taking classes in the medical field, such as nursing or clinical courses, had very limited learning opportunities.
- Due to the possibility of less direct one-on-one connection as a result of the switch to virtual learning, students are more likely to fail. This also includes students not being able to receive their full education as well.
- Students have immediate worries about how COVID-19 may affect their ability to learn and retain information. As students are forced to quickly adapt to a new way of learning, their mindset and motivation may never be the same once they return to "normal" education.

Nicholas Samonte

In-Person Learning is Ideal for Students

- The experience and education of students are far better served by the conventional method of in-person learning.
- In-person education leads to better academic performance, more student engagement, and better attendance.
- Also, in-person learning grasps students' education more efficiently. There are less distractions for students while they are in a classroom as opposed to learning at home. It is simpler for teachers to help students and keep them on topic when students are always visible to them.

Nicholas Samonte

Performances Worsened Online for Students

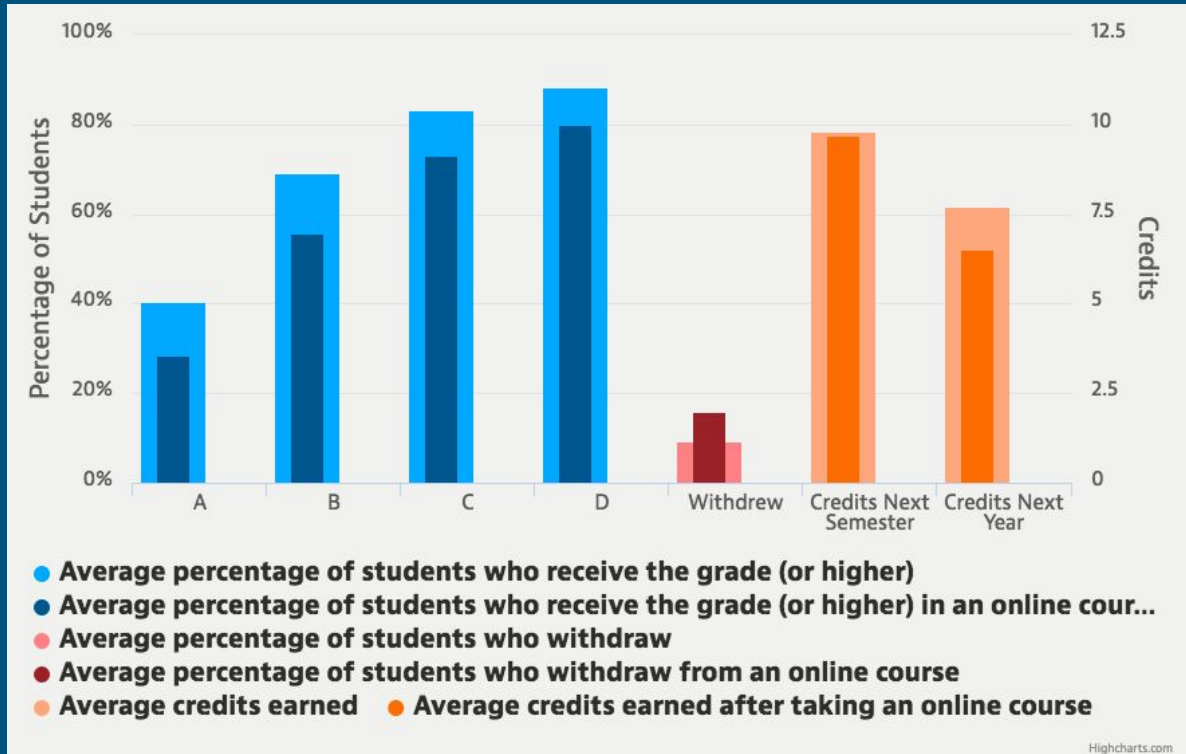


Figure 1. Falling Behind by American Economic Association.

Graph of Student Grades on Scale from A to D and Comparison of Online Courses and In-Person Courses

Nicholas Samonte

Figure 1 Cont'd

- As shown in Figure 1, there is a consistent showing of the fact that students in online courses receive lower grades than those who have normal, in-person courses. This represents that the performance of students is better, on average, when they are receiving their education in-person rather than virtually.
- Students are shown to be more likely to withdraw from online courses. This provides more evidence that virtual learning is least beneficial for students and students do not favor virtual learning.
- This chart helps me support my position because each element of it provides positive results for normal courses and negative results for online courses. In order for students to overcome the challenges that came with virtual learning, they were forced to adapt and create a suitable learning environment for themselves in order to still be successful. Virtual learning created many other issues for students such as worsened mental health, depression, hindered social skills and exhaustion.

Nicholas Samonte

Figure 1 Cont'd

- The virus, COVID-19, forced students into a learning gap.
- This gap was created due to the fact that the education that students who were forced to virtually learn was far less efficient than those students who were fortunate enough to fully experience their education in-person.
- Problems related to the statistics displayed in Figure 1 are that students are forced to be more independent and self-disciplined. In virtual learning, getting work done was solely the students' responsibility since they are so distant from their teachers and contacting others is not as easy as it would be in the classroom.
- This allows students to openly procrastinate and become distracted from anything surrounding them. With this being said, these many opportunities for students to lose focus or be on their own plays a large role in the low grades.

Nicholas Samonte

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Nicholas Samonte

Julian Samonte research contribution

For my portion of the research I covered why online learning put teachers specifically at a huge disadvantage.

Covid-19 Effects on The Workforce as a Whole

- An outbreak of COVID-19 that started in Wuhan, China and continued to spread all over the world.
- A Washington state resident returned to the U.S. from Wuhan on January 20 2020, bringing COVID-19 into the U.S (Sencer, 2022).
- Schools couldn't allow people in. School was a big issue around the world during the pandemic and the world had to find a way for students to get their education.

The Effect of Quarantine on Schools In General

- Covid forced schools to go from in person learning to virtual learning that nobody had been familiar with. Due to the unfamiliarity, students and their education were massively affected.
- Students could cheat on their assignments and just flat out skip class with much ease in virtual learning classes. The lack of motivation led students to accomplish significantly less in their classes.
- Some disadvantages of asynchronous learning include the “lack of personal touch, lack of attention, and it requires a lot of self-discipline that some high schoolers just don’t have.” (Bhamidi, 2022).

The Struggle of Teachers Online vs. In-Person

- With the use of synchronous and asynchronous instruction, creative teaching strategies, and adaptation to unanticipated conditions, teachers were asked to build relationships with students, families, and coworkers in a troubling environment.
- Compared to teachers in face-to-face classrooms, teachers in all-remote classrooms reported increased students missing and worse student work completion. Additionally, compared to their colleagues who were teaching in-person, these online teachers claimed that they required more support and direction when developing lesson plans that they usually had no problems creating before (Schwartz, 2020).

How Online Learning Dispirited Teachers

- It is important to understand why teachers would be leaving their professions because teacher effectiveness can harm the way that students learn and harm the academic performance of all students.
- According to information made available today by the National Center for Education Statistics, a division of the Institute of Education Sciences of the U.S. Department of Education, nearly half of public schools presently report full- or part-time teaching openings.
- Sixty-one percent of public schools with at least one open position specifically blamed the COVID-19 pandemic for the rise in teaching and non-teaching personnel openings (DeLaRosa, 2022).

Teachers Unmotivated to Keep Their Professions

- As seen in Figure 4 the probability of moving or leaving for teachers has increased in March 2021, which was after the school year of COVID and virtual learning.
- After COVID started which was March 2020, teachers were most likely willing to come back, however after that school year less teachers were willing to come back due to safety reasons.
- As seen from evidence in Figure 4 and from all other sources, teachers were struggling and went through their worst hardships in teaching because of the COVID online learning year.

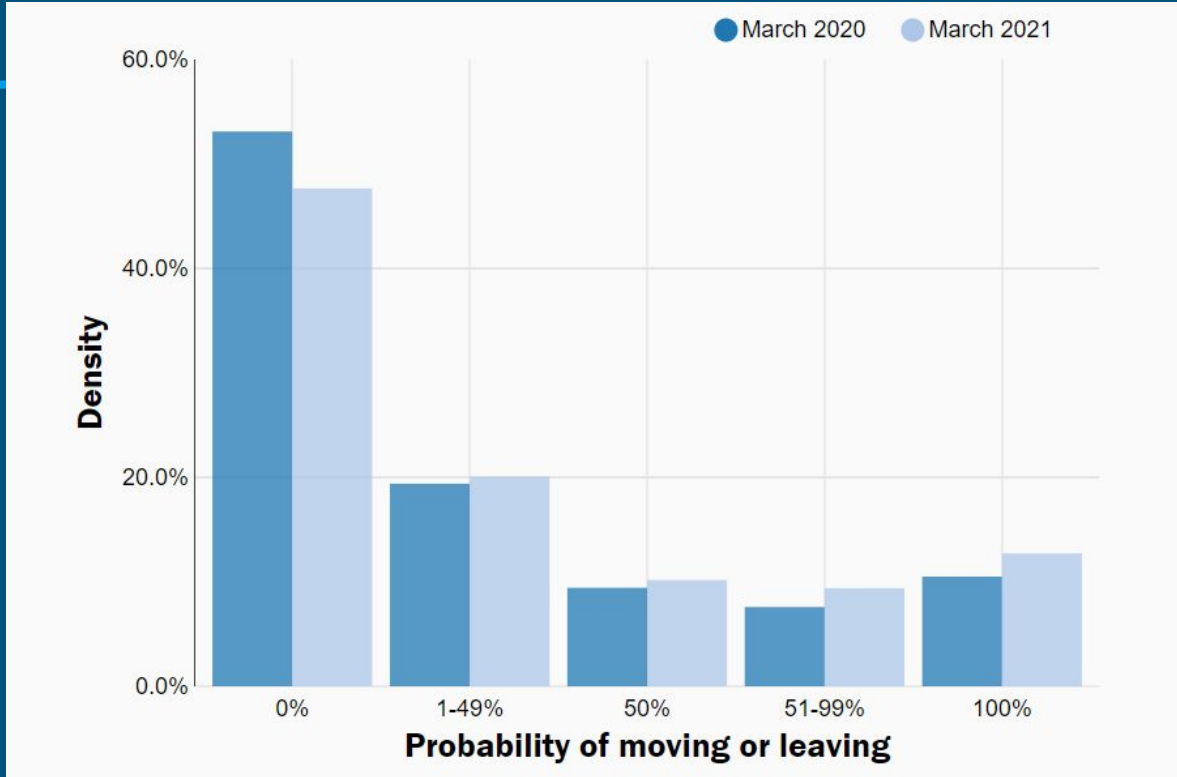


Figure 4: During the Pandemic, Teachers Became Less Certain that They Would Work a Full Career in the Classroom. They were surveyed before and after the COVID year of their probability of returning to their teaching position.

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Jaylon Riddick research contribution

My overall portion of the research covered the rebuttal which talks about why online learning is helpful for students.

The positive roles online learning plays in students' lives

1. Students gain more technology knowledge. (L.S.U.M.S, 2021)
2. Students gain more responsibility during online learning because they have no teacher to guide them every step.
3. Online learning provides equal outcomes for the less fortunate students (B. Castro 2021)

Online learning has a plethora of benefits

1. Online learning helped students adapt to adversity(L.S.U.M.S 2021)
2. Online learning allowed students to become more technologically advanced(L.S.U.M.S, 2021)
3. Online learning allowed teachers to help students with special needs more
4. Students did not have to worry about transportation during the pandemic which helped those out who did not have rides(Shawn, 2019)

Online learning during the pandemic and its pros

1. Online learning was very flexible which allowed for students to make it to class(B. Castro 2021)
2. Covid 19 learning opened up opprotunities for more and more schools to open
3. Students do not have to spend as much money with online learning
4. Anyone could learn during the covid pandemic because online learning is global(B. Castro 2021)

How online learning affected students learning outcomes

The state of global education, before and during COVID-19

The pandemic has had a wide-ranging impact on student learning and well-being, which in turn will have a long-lasting effect on individuals and on economies.



The primary challenge for some countries may be fixing underlying pre-COVID-19 gaps; for others, it may be addressing new gaps.

Education system performance, as of Jan 31, 2022

The image across shows how students scored on test before the covid 19 pandemic, during the covid 19 pandemic, and online learning, and how they ended up adjusting to the new learning curve a few months after. Most students either scored higher or stayed around the same since online learning during the pandemic.

Jaylon Riddick

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[How COVID-19 caused a global learning crisis | McKinsey](#)

Jaylon Riddick

THE END