

# Analyzing the importance and feasibilities of introducing online learning into the modern education system in Bangladesh

Shatabdee Bala <sup>1\*</sup>, Md. Tamimur Rahman<sup>1</sup>, and Farzana Tasnim <sup>1</sup>

## *Abstract*

*Education constructs a modern and civilized society. It changes its method of execution over time according to demand. In this modern era, we need to adapt online learning through the internet with gadgets like computers and mobile phones on different platforms. It focuses on students who are full-time workers or who, for any reason, are unable to attend a direct class but can attend online lectures. It reduces the problem of distance, requires less travel to the institute, and saves money. The recent COVID-19 pandemic also taught us how much online learning can help us. But at the same time, it also demands skilled people as well as a good network and capable devices, which can be expensive. In our study, we have tried to find out the importance and present situation for implementing online learning in education, with its pros and cons. We will discuss how we can demolish the problem to implement online learning and why should we do so.*

**Keywords:** *Online learning, modern education system, learning environment*

## 1. Introduction

Online learning denotes learning from anywhere, or educating students from anywhere. The students can complete their admission process online. Then they will receive instructions through online classes, video conferencing, or any other technical medium. Lectures and learning materials are sent over the internet after or before the class. So students can access course materials on a PC as well as a phone. The classes, submitting all kinds of class work, assignments, and even all exams, will take place online. The students do not have to be physically present at the institute. But they have to attend the online classes according to routine. So here, the interaction between students and teachers remains as good as in offline classes.

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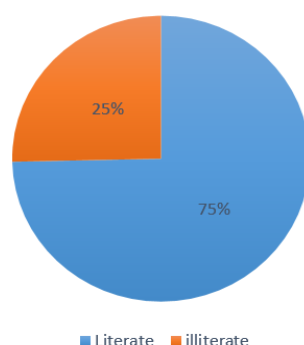
<sup>1</sup> Department of Computer Science and Engineering, Gono Bishwabidyalay, Savar, Dhaka-1344, Bangladesh.

\*Corresponding Author email: [balashatabdee@gmail.com](mailto:balashatabdee@gmail.com), Phone:+8801743612112.

Online learning can help a large number of interactive participants receive multiple degrees at a time through different learning platforms. In many cases, the online learning program is more flexible than the traditional classroom experience. The recent COVID-19 pandemic suddenly forced us to adapt to online learning. Maximum countries permitted their universities to adapt the online learning system.

Bangladesh is a developing country in the Third World with a 74.66% literacy rate according to the "Population and Housing Census 2022". The census shows that over 4 crores of the population is illiterate<sup>2</sup>.

**Literacy rate in Bangladesh**



**Figure1: Literacy rate in Bangladesh**

There can be many reasons for that. Easy access and low cost for education can bring a big change here. The use of the internet, mobile phones, and laptops has increased in recent years. If people get online admission to any institute and achieve academic certificates, then they will be encouraged to be engaged with education. They don't have to pay for accommodation but only for the tuition fees of the institute. Additionally, they can save on the travel cost to the institute. After getting certificates, they will be eligible for jobs as like traditionally educated people. So students can attend classes, learn, take part in examinations, and finally get certificates officially from renowned institute by sitting at home.

In our country, online learning was not popular before 2019. During COVID 19, online learning was widely introduced. But as soon as the pandemic ends, the process of online learning ends too. It's logical in this case that the online learning was permitted due to maintaining the social distance to prevent COVID-19. But online learning has lots of benefits too. The wide use of

<sup>2</sup> <https://www.thedailystar.net/youth/education/news/bangladeshs-literacy-rate-now-7466-3080701>

online learning can educate a huge number of people in a short time. It doesn't require accommodation facilities for education like buildings, benches, chairs, lights, fans, etc. The institute just needs teachers and a curriculum. They can launch an online form for new students in a new batch and prepare a routine. The students can get admission online and complete their course on the Internet. They just need a good device and a good network, along with some financial support, to complete the course. If each educational institute launches an online course, a great number of people will receive the opportunity to get better education at a minimum cost as they don't need to pay for any accommodation, which is very beneficial for developing countries like us. Here, obviously, permission from the education ministry and UGC is also required, which should be of concern to the government.

So the benefits of online learning are more obvious than ever: Flexible location, Easy access, Reach more students, less cost.

## 2. Literature review

Online learning is an updated version of online learning. Online learning programs with a design-oriented to meet student's educational needs. It produces an innovative learning atmosphere and promotes collaborative learning in an online learning platform. It additionally improves the teaching and learning experience (Jo Shan Fu-2013) (Fu, 2013). The impact of online learning helps identify factors that influence student satisfaction and performance related to online courses and establish relationships between these variables (Ram Gopal, Varsha Singh and Arun Aggarwal-2021) (Gopal, 2021). Technology-based learning methods and resources to fulfill students' learning wants. It additionally helps students become lifetime learners (Nafiz Zaman Shuva-2010) (Shuva, 2010).

E-learning might be a platform that creates a method of education a lot student-centered, creative, and versatile. It conjointly helps to boost important learning skills (Marwa Mohamed-2021) (Mohamed, 2021). The aim of this study is to assess university medical staff's perceptions, assess their experiences, acknowledge their barriers, and assess their challenges in e-learning throughout the Covid-19 pandemic. E-learning not only across pandemics but also in alternative non-pandemics throughout education life. Different types of learning environments will depend on educational objectives, target audience, access (physical, virtual, and/or both), and content.

Different types of learning environments such as online learning, e-learning, and learning depend on the learning (Joi L. Moore- 2010) (L., 2010).

Online learning is strictly accessible using technological tools that are either web-based, web-delivered, or web-enabled. If teachers feel that the use of computers will make their daily activities such as creating lesson plans, and lesson materials, or analyzing student results more organized and accurate, then they are more likely to use them. Effective use of technology in education classrooms should be equipped with student devices, teacher devices, shared display projectors, network connectivity as well as other enabling facilities (Murithi and Yoo Innov Educ-2021) (2021). E-learning is an innovative learning approach. The e-learning adoption methodology desires higher than all: the growing acceptance of innovation culture, the reconfiguration of learning space, and therefore the introduction of recent ways that measure learning (Helena Rodriguesa-2019) (Helena, 2019).

Student satisfaction and participation levels are good in online learning. It provides more opportunities to develop critical (higher-order) thinking skills. Online education is possible, affordable, and a must- have part of graduate training (Sakshi Agarwal & Jaya Shankar Kaushik- 2020)( Sakshi, 2020). Focus on students' learning styles. This study uses online vs. traditional learning collectively as our bases of comparison, among others. Analysis shows that learning designs, and maybe variations in courses that faucet into the varied designs (Clement Chen- 2015) (Chen, 2018).

Students learning outcomes and their satisfaction are important factors for predicting student learning and motivation. Modern teaching styles and online learning increase student motivation to learn in that environment (Hasnan Baber-2015) (Baber, 2020).

In this modern era, we are wildly using computer technology for teaching. The purpose of study one of the important needs computer skills training program. The use of technology in education can be a part of what today's generation uses from time to time to fulfill their desire to learn. The aim of this study was to determine the IT skills of primary school teachers to integrate laptops and computers (Ouma Omito-2019) (Omito, 2019). Interaction is understood as a fundamental element of a quality learning environment. Students develop a sense of belonging by interacting in meaningful ways (Jamal Abu Al-Ruz-2011) (Jamal, 2011).



### 3. Findings

Our study was to determine the importance and feasibility of introducing online learning in the best possible way. It increases the number of enrolled students in online-based courses. So we can say that online learning is a convenient way to learn new things.

We have found a lot of scope to implement the highest level of online learning. But of course, as an IT-developing country, some restrictions also exist.

Existing inappropriate conditions:

In our country, there are some challenges that hamper online learning, including

- Unknown about the proper use of the internet,
- Phone and laptop prices are not always affordable to students, and
- Less adequate instructors are available to teach in this environment.

For rural areas:

- Lack of IT skills and insufficient arrangement of the whole thing
- Slow internet
- No laptop most of the time,
- No proper training exists to provide online education.

For urban areas:

- Some problems are similar in rural and urban areas.
- Slow internet in many places.
- Price of internet
- Also insufficient phones and laptops.

We can apply these in our education system:

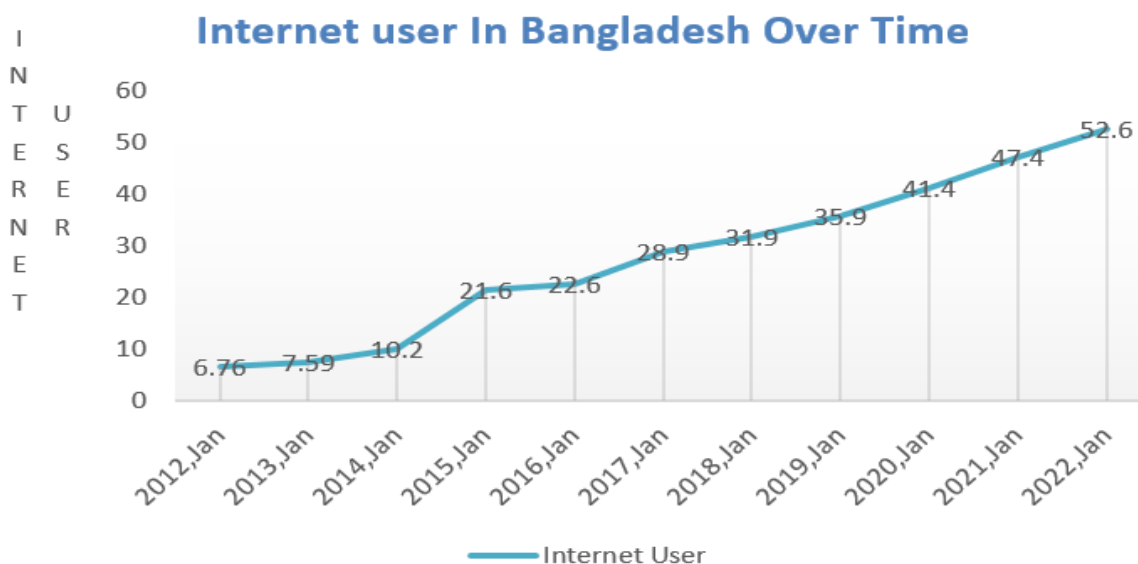
- Introduce ICT from an early age. So people can understand online learning and use elements of online learning.
- Least price of a laptop, phone, and internet.

### 4. Method

In order to develop this education system in our IT-developing countries, we need to eliminate the drawbacks as much as possible with good planning and organizing. Also, ensure easy access to resources and improve student autonomy. Besides after pandemic the uprising rate of internet user shows people are being more depended on internet day by day.

Year	Number of user	Annual change
January 2022	52.6 M	
January 2021	47.1M	11.60%
January 2020	41.4M	13.90%
January 2019	35.8M	15.60%
January 2018	31.9M	12.30%
January 2017	28.9M	10.4%
January 2016	22.6M	27.60%
January 2015	21.6M	4.80%
January 2014	10.2M	112%
January 2013	7.59M	34.1%
January 2012	6.76M	12.4%

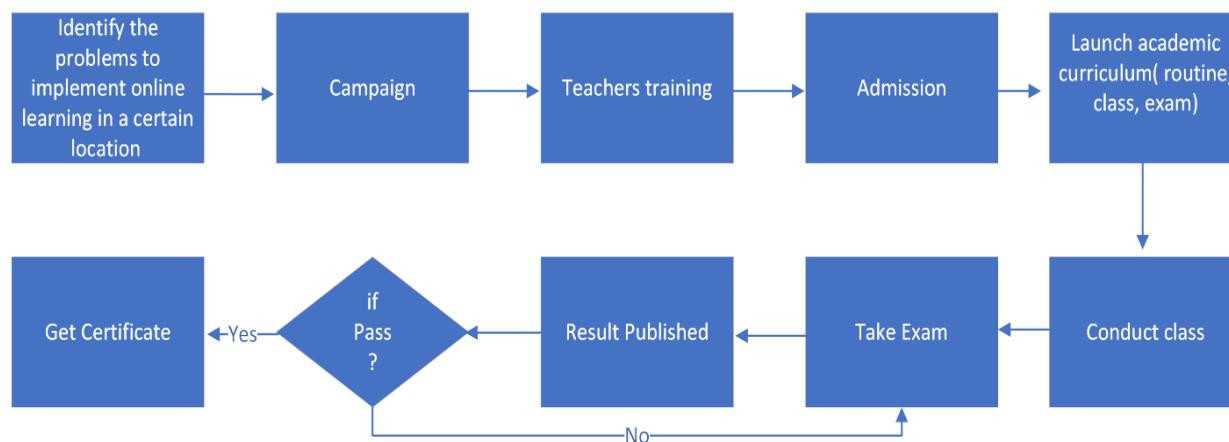
**Table 1: Internet user of Bangladesh over time<sup>3</sup>**



**Figure 2: Internet user of Bangladesh over time**

So, we have to use this dependency for education. The full process of online learning can be depicted as following figure.

<sup>3</sup> <https://datareportal.com/digital-in-bangladesh>



**Figure 3: Flowchart of the online learning system**

Education ministry permission is required for all kinds of educational institutes, and UGC permission is required to launch online courses, which should be the concern of the government. The price of online learning equipment's should be decreased. They can be VAT free for students.

ISPs and mobile companies can give students special offers on internet packages.

Campaigning for online education can help to encourage people.

### **5. Conclusion:**

Online learning can play a vital role to increase literacy rate in short budget and time. The limitations like internet cost, price of computer and phones, lack of skilled people exist. But these limitations can be overcome with help of proper planning to implement online learning. Teachers training, low internet cost, proper campaign all together can involve more and more people into online learning system. As a result, we can say that online learning will enhance our education system. Besides, if the equally appreciation of all kind of certificate whatever online or offline is guaranteed there will be no hesitation to participate in online learning. So online learning will become more popular day by day.

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