



Impact of Online Education on Teaching Learning Process

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Abstract - The emergence of online classes has changed the face of the education system forever. Online learning has made students and teachers leave behind the traditional chalk and board method and adopt the evolving technology. Everyone is welcoming this change and broadening their horizon of knowledge while putting an end to the long-term trend of stagnancy. It has revolutionized the education system in every sense; be it teachers, students, or usage of technology, everything is evolving. Online learning is a form of education that is electronically supported and relies on the internet for teacher-student interaction and the distribution of study materials. Earlier online learning was a small part of distance education programs, but due to the ongoing pandemic and evolution of technology it is becoming more of a mainstream thing; or rather a necessity.

Keywords - Teaching, Learning, Online Education, Technology.

Introduction – Knowledge is power, and with today’s advanced technology, you have all the power you need at your fingertips. For most of us, the traditional face-to-face way of learning was the only known and practiced option. However, the Covid-19 pandemic has presented online or virtual learning, a brand new method that turned out to be very effective. Virtual learning refers to attending the learning process via computers and the internet, both inside and outside the educational organization’s facilities. Virtual learning is a new approach used by many institutes and universities, especially during the last few years, to convey education to students effectively. A virtual learning environment strives for creative interactions, active learning environments, and course planning. In an online learning environment, teachers provide their students with the needed instructions for them to succeed while still remaining independent.

The role of technology in Teaching Learning Process – Today, technologies used to improve and facilitate learning can be found everywhere. Leaving other contextual factors to the side such as unequal access to technological innovations and connected technologies across schools and districts we can only say that we have embraced technology in education when it is used for both teaching and learning. With the incorporation of technology into schools, the main purpose is to change how teachers and students gather, access, analyse, present

and transmit information. This can democratize information in classrooms as well as help differentiate instruction, particularly for students with special needs.

Technology has made it possible for students to gain qualifications online and educate themselves through institutes that offer online courses. They can learn from home without having to pay to commute or move away to attend university. Working professionals have the opportunity to pursue further education without having to give up their full-time jobs. Being able to learn remotely has been revolutionary because it has made education accessible to everyone. Technology is being used to teach differently, whether that through online learning or merely showing a video in a classroom.

Students are often bombarded with information in a classroom which they must quickly attempt to process and make sense of. However, this can leave them feeling overwhelmed and confused by concepts. Technology provides students with access to countless online resources, encouraging them to carry out research and therefore become more independent. It also simplifies learning by making concepts more digestible, for example through an instructional video. It is important to recognise that there are various learning styles and traditional education may not be catering to them all.

Teaching is now more than a lecturer in front of a blackboard and technology has been an integral part of its development. It has transformed education and the way that people learn and retain information. Therefore its role in the future of education is a fundamental part in maintaining the growth and progression of today's economy.

Online Teaching –

Online teaching is the process of educating others via the internet. Various methods can be used, such as one-on-one video calls, group video calls, and webinars. Online teaching is a student-centric methodology that increases students' interest and participation levels in virtual classrooms. The teaching skills play a great role in successful interaction with the students. Teachers have to polish their communication skills in order to ensure that student engagement is on point. You should create a positive learning environment and incorporate various classroom activities and games to make sure that the students are attentive. It is a misconception that it is difficult to tackle student focus in online classrooms. All you have to do is understand that online classrooms are significantly different from traditional classes and alter the methods and strategies accordingly.

Challenges of Online Teaching –

1. **Communication Challenges** - Communication is one of the online teaching challenges for teachers and students. Both should communicate with each other. You should effectively communicate with all students. On the same day, your students should be able to communicate with you easily. In turn, they can come up with their doubts to get them clarified. This challenge can be handled with ease by following some etiquette in communication on both sides.
2. **Lack of Technical Knowledge** - One of the problems faced by teachers in online teaching is a lack of tech knowledge. Of course, young teachers do not face any issues with tech knowledge. But, this is one of the biggest challenges of distance learning for teachers, particularly those in their 45s, the 50s and 55s. But, this challenge is again easy to address.

3. **Time Management** - Again, one of the challenges in online teaching is that students do not keep up the time. When they have schools, they know that they should reach the school at a particular time. If they do not do it, they will be punished or fined they know. But, they do not follow a time schedule in online learning. As a teacher, you should ensure that a time commitment is established.
4. **Connectivity** - Currently, around the world, there is massive use of internet and streaming services, making it tough to stay connected. There is an increased use of video streaming software, online learning systems, and digital tools. This overloading has led to internet problems, poor quality video and audio, downtime, and connection losses between teachers and students. Most teachers are trying to manage the connection issues.

Online Learning Process - Online learning is a method of education whereby students learn in a fully virtual environment. First introduced in the 1990s with the creation of the internet and utilized in distance learning, online learning (also called e-learning) is most prevalent in higher education, enabling students from different geographical areas to engage with an academic institution and other students online and learn flexibly, at their own pace, while working towards a degree or certificate. Online learning refers to an internet-based learning environment that can connect students of diverse backgrounds who boast different perspectives.

Sources for Online Learning –

1. **YouTube** - There is more to YouTube than simply watching cat videos and music videos. YouTube is a great platform for learning new things. You can easily find tons of great educational videos on YouTube and all you need to do is to type what you want to learn in the search box and it will show you hundreds of pertinent results. Subscribe to some viable educational channels and stay tuned for the latest videos to help you develop a more ingrained comprehension of any subject.
2. **SWAYAM** - SWAYAM is a programme initiated by Government of India and designed to achieve the three cardinal principles of Education Policy viz., access, equity and quality. The objective of this effort is to take the best teaching learning resources to all, including the most disadvantaged. SWAYAM seeks to bridge the digital divide for students who have hitherto remained untouched by the digital revolution and have not been able to join the mainstream of the knowledge economy.
3. **MOOC** - Massive Open Online Courses (MOOCs) are free online courses available for anyone to enrol. MOOCs provide an affordable and flexible way to learn new skills, advance your career and deliver quality educational experiences at scale. It is aimed at unlimited participation and open access via the web. There are various organizations who are providing MOOC courses, They are NPTEL for engineering, UGC for post-graduate education, CEC for under-graduate education, NCERT & NIOS for school education, IGNOU for out of the school students and for management studies.
4. **NPTEL** - The National Programme on Technology Enhanced Learning (NPTEL) was initiated by seven Indian Institutes of Technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee) along with the Indian Institute of Science, Bangalore in 2003. Five core disciplines were identified, namely, civil engineering, computer science and engineering, electrical engineering, electronics and communication engineering and mechanical engineering and 235 courses in web/video format were developed in this phase.

5. **Virtual Lab Projects** - Virtual Labs project is an initiative of Ministry of Human Resource Development (MHRD), Government of India under the aegis of National Mission on Education through Information and Communication Technology (NMEICT). This project is a consortium activity of twelve participating institutes and IIT Delhi is coordinating institute. It is a paradigm shift in ICT-based education. For the first time, such an initiative has been taken-up in remote-experimentation. Under Virtual Labs project, over 100 Virtual Labs consisting of approximately 700+ web-enabled experiments were designed for remote-operation and viewing.

Conclusion - online learning is beneficial to the students, tutors and the institution offering these courses. I would therefore recommend that online learning be implemented on all learning institutions and research on how to improve this learning process should be carried out.

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