

# DIGITALIZATION IN EDUCATION

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**Abstract:** Education is a basic necessity for every human being and digital education is currently on the trend and is the need for every student or learner to be more focused on their learning .It was found that Digital Education helps students or learners to gather knowledge in easier and different ways. In the Traditional education system, students were mostly dependent on textbooks or instructor's teaching. But nowadays it is simple and trouble-free to acquire any textbook or learning material by using digital educational tools. The potential of digitalization to transform education is thrilling and comes with many opportunities and challenges, given new trends and development in digital technologies.

**Keywords – Digital Learning, Education System**

## I. INTRODUCTION:

Digitalization in education is a strong trend in terms of transformation and improvement of the global education environment. Digitalization in education means transforming all information types(texts, sounds, visuals, videos, and various data from different sources) into the digital language. Digitalization makes use of mobile devices, desktop computers, software applications, the internet, and other types of digital technology to teach students of all ages .Digitalization in education has examples like test-taking using a computer, online universities, e-books, and edutainment. Traditional Educational procedures are being replaced by Digital Education more and more each day. Learning tools and new technology allows students to grow effective self-directed learning skills. The students can analyze what they require to learn to search and use online resources. Students who like to learn using new digital tools and new technology become more engaged in the method and more interested in developing their knowledge base. Digital Education is much more interactive and more memorable than free-handed textbooks or one-sided lectures; they offer a good context, a greater sense of potential, and more appealing activities than the traditional education process.

## II. LITERATURE REVIEW:

The study involves review of different literature. Some of them are as follows:

Jinal Jani and Girish Tere (2015) [1] discusses the Digital India programme initiated by the government of India as important for the development of digital education in the country. Digital India drive is a project introduced by the Government of India for creation of digital empowered society across the nation. It will help in mobilizing the capability of information technology across government departments and helps in delivering the different governments programs and services. Digital India will assist in creating jobs, providing high speed internet and digital locker systems and so forth. Digital India has three important components namely digital infrastructures creation, digital delivering services and resources and digital education.

Himakshi Goswami (2016) [2] describes and features the different opportunities and challenges of digital India programmes in India. The Digital India programme initiated by the government of India will help in transforming the country into a digitally empowered economy. This will help the government of India to combine the Government Departments with the people of India. The major purpose of this programme is to reduce the paperwork and help in providing different Government services electronically to the Indian citizens. It describes the different opportunities of the programme for the people of the country. India has different languages, culture and customs, food habits, laws and traditions. The purpose of the digital India programme is to integrate the whole country digitally but the languages would be the main challenges in the implementation of such a programme.

Jayesh M. Patel (2017) [3] discusses that there are many web based tools available which can be used in the classroom for digital education like Twitter, Prezi, Dropbox and Moodle. Professors and students are interested in web based digital education but because of lack of knowledge they are not initiating the same. Web based tools will make the learning more interesting and students will get motivated which normal classes cannot do. Currently the teacher centered approaches are making learning tedious even for interested chapters, use of digital technology makes even boring content interesting and joyful. The concept of child centered approach will be fulfilled only with the help of digital technology.

## III. RESEARCH METHODOLOGY:

The main focus of this research method is to provide complete detail of the situation with the aim of understanding behavior and inter-relations. The research is based upon secondary data. The research was conducted with the help of various literature reviews, without any empirical work being conducted.

## IV. DIFFERENCES:

	Parameters	Digital Education	Traditional Education
1	<b>Flexibility</b>	Online education is inherently flexible. For working professionals, digital learning offers a way to fetch professional or personal commitments with study. Many online courses are personalized and have options to change the pace of learning.	Traditional education is a lot more rigid. And unlike online education, which can be accessed from anywhere, on any device, conventional courses are not designed for the mobile generation.
2	<b>Cost</b>	With digital education, you will not have to pay beyond your means. It is reasonably priced, and one can get the finest education without hurting your budget.	Traditional education will be more expensive than digital learning. In addition to elementary education, you will also have to pay the fees for advanced education.
3	<b>Technical Involvement</b>	If you wish to pursue online education, you must have some elementary technical knowledge. Without this knowledge, you will find it difficult to pursue a digital education. You must be able to understand software, search engines, email, message, webinars, web pages, chat rooms, and more.	There is no prior knowledge required. You can start as a fresher with zero understanding of any subject matter.
4	<b>Social learning</b>	The Digital education system is allowed for only limited indirect communication with the other students and this may often lead to isolated students.	The Traditional education system allows the student to learn by interacting or communicating with each other. The students can also learn how to share and respect others.
5	<b>Variety of Courses</b>	In a digital education system, online education is not bound by space or time constraints. This is the main reason that they can offer their students a vast number of courses	The variety of the courses are limited. Thus, students have to learn with the limited resources available which can cause a hindrance in the expansion of learning.

## V. ADVANTAGES AND DISADVANTAGES:

- **Advantages:**

**Recorded Lectures:-** The big advantage of digital education is that some of your classes will be recorded. This means that if you miss something or you realize later that you don't quite understand a particular topic, you can go back and watch the class again to get the answers you need.

**Connected Learning:-** When you choose online learning, you will be part of a connected community. If there is something you need help with, tools like Zoom and Microsoft Teams can connect with your classmates so that you can find the answers you need right away.

**Develops Accountability in Students:-** With the real-time analysis of performance and auto-generated reports, digital education makes the assignment of each student much more clear and informative. It gives the students the ability to measure their performance in detail and come up with appropriate solutions on their part.

**Time Flexibility:-** Online education is convenient because students may log into the study material whenever it suits their schedule.

**24-hour resources:-** With digital learning, you don't have to worry about the library or the lab being closed. You will be able to access your learning materials online anytime.

**Written Language Skills:-** Digital education could help you in improving your written language skills. When you are studying online, you will likely use instant messaging apps to quickly get in touch with people, so you won't be able to rely on hand gestures and facial cues that can make communicating easier.

- **Disadvantages:**

**Lacks Social Interaction:-** Digital education is one of the causes of social separation because you don't see your professors and classmates face-to-face anymore.

**Inaccessible to others:-** Some students may have very limited access to the internet. They have to go to internet cafes or use public WIFI which is very inconvenient.

**Cheating is unavoidable:-** Digital education includes assignments, just like a regular class setting. However, there are no professors or proctors to watch you during online exams. It is easy for the students to share their answers knowing there is nobody watching

**Requires self-motivation and proper time management:-** You are essentially on your digital learning. You have to motivate yourself by sitting for the lectures, taking down daily notes, and gathering more information. You should also be able to manage your time well by learning how to juggle studying while doing other things like household chores or earning money part-time.

**Focuses more on theory:-** You will spend most of your time listening to podcasts, watching videos, and looking at slide presentations. There is no hands-on experience like conducting experiments.

## VI. CONCLUSION:

The main purpose of the study was to search the evolution of educational research on digital education. The study clearly shows that the development of education infrastructure is required for the development of digital education across the country. This will lead to a considerable increase in infrastructure investment in the education sector. Technological training and a strong legal and intellectual property protection framework are required for the development of digital education in Indian Society.

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