

## DIGITALIZATION AND ITS ADVANTAGES

DR. RICHA SANGWAN, YASHNA BAWA

Assistant Professor, Sanatan Dharma College, Ambala Cantt.  
e-mail: richasangwan.s@gmail.com

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### ABSTRACT

Education plays a vital role in overall development of human being. Over the past few years traditional education (blackboard, chalk, OHP etc.) has been replaced by modern education (digitalization or e-learning). It is an integrated way of teaching and learning that can meet the needs of today's digital occupants. Through digitalization it is easier for students and teachers to gather information related to their subjects. It also saves the learning time of the learner. Different apps available in the internet have been focused in this paper.

**Keywords:** Digitalization

### INTRODUCTION

*“Technology can become the 'wings' that will allow the educational world to fly farther and faster than ever before; if we will allow it.”*

- Jenny Arledge

In India, the traditional method of education was imparted through gurukul system in which guru give the knowledge in natural environment under the tree where students were under strict control, guidance and monitoring of guru. After that, the era of class room came where teaching and learning of education was imparted in instructive mode based on black board and text books. In 1991, with the emergence of information technology revolution the way of teaching and learning has changed enormously, where black boards have been replaced by smart boards, LCD projector and computer came into existence, basic chalk has been replaced with Power Point Presentations, audio recordings and visual clippings <sup>(1)</sup>.

During the past few years, digitalization has changed and provoked the whole society, creating new working skills, modern cultural conditions, and innovative tools for communication (Newell and Marabelli, 2015).

The digitalization process in education became a strong trend in terms of reforming and modernizing the global educational environment. Text, images, video, and audio into a digital format that can be played by the computer can be translated by the help of digitalization. The tools which can be used in digitalization are computer, the internet, the smart phone, the scanner, the digital camera, the projector, the printer, etc. The digitalization can be the online admission process, the online exam, the sharing of online / web knowledge, digital support materials (in different formats like ppt, pdf, doc), social groups, digital publications, etc. <sup>(2)</sup>.

Using different apps of the Internet for applying digital teaching materials would replace traditional teaching. The aim of the digital teaching is to have students actively participate in learning activity to achieve the set learning outcome (Pai and Tu, 2011).

### Review of Literature

Kamble, Avishkar, D. (2013) in the paper titled “Digital classroom: The Future of the Current Generation,” examined the significance of digitization in education and concluded that a modern classroom is basically an Information and Communication Technology based classroom. The aim of the traditional classrooms is just to converting into interactive sessions by combining best hardware with syllabus-compliant, multimedia content. In many colleges, computers are used by teachers and students for better communication and learning.

Jha, Nivedita., Shenoy, Veena. (2016) in their research paper titled “Digitization of Indian education Process: A Hope or Hype,” populated that over a period of time many changes have occurred in different sectors of economy including the education system. During the evolution, education sector unlike any other sector has seen many stages. From old traditional, Guru-Shishya system of conducting the class in open garden under the trees to closed class room lectures, presentation form of teaching with the aid of LCD touch-screen projector to online notes and now instant Whatsapp

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messages is the buzzword among the students. Whatsapp has gained the status of being authentic formal means of communication among the students and the academicians.

### **Objectives**

1. To better know the correct online app of internet.
2. To understand the advantages of digitalization.

### **Top Education Apps in India for Online Learning**

The apps have been classified into 5 categories which are given below.

1. Education Apps for K-12 + Competitive Exams(School Students)
2. Education Apps for Advanced Govt. Competitive Exams
3. Education Apps for Analytics/Coding Learning
4. Education Apps for Language Learning/Other skills
5. Secure Video Player Option for E-learning Apps

#### **Education apps for Class K-12 + Competitive Exams**

- |                |                 |
|----------------|-----------------|
| 1. Meritnation | 2. Byju's       |
| 3. myCBSEGuide | 4. Vedantu      |
| 5. Vidyakul    | 6. Toppr        |
| 7. DoubtNut    | 8. Khan Academy |

#### **Learning Apps only for competitive exams including Government Exam**

- |                             |                |
|-----------------------------|----------------|
| 1. Drmentors Medical PG app | 2. CAclubindia |
| 3. Indigolearn              | 4. Testbook    |
| 5. Unacademy                | 6. Adda 247    |
| 7. GradeUp                  |                |

#### **Education apps for Advanced Analytics/Coding Learning**

- |                  |                   |
|------------------|-------------------|
| 1. Coursera      | 2. Simplilearn    |
| 3. Udemy         | 4. Sololearn      |
| 5. Coding Ninjas | 6. Jigsaw academy |

#### **Education apps for Language Learning/Other Skills**

1. Duolingo

### **The Advantages of Digital Education System (Digitalization) For Students:**

#### **1. Student-centered learning**

Digital education system plays a vital role in student's life. It makes the learning process easy and convenient to the students. The best example of student-centered learning is one to one learning. However, it is expensive and time-consuming. The conventional mode of learning sometimes creates a gap in overall learning and frequently leads to a lack of interest among the students when they are not able to adjust with the rest of the class. In digital format, the teachers can customize the curriculum/syllabus based on student's learning speed and capability.

#### **2. Makes Students Smarter**

The learning tools and technology allow students to grow effectively in self-directed learning skills. The students should be self capable of analyzing what they actually wants to learn, to search and use online resources. Digital learning only enlarges their efficiency and productivity. Furthermore, to fascinating the students, digital learning tools, and technology should sharpen their critical thinking skills which are the basis for the growth of systematic reasoning. Students also

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inculcate positive attitude regarding digitalization by mastering new knowledge and skills using different learning tools, offering them the dependence they require to want to learn and understand even more new things.

### **3. Make Students Self-Motivated**

It has been observed that students who spend more time in using digital tools and technology become more self-reliant and are more interested in developing their knowledge base. For students, digital learning is far more interactive, interesting and memorable than generous textbooks or one-sided lectures. Digital learning offers a good context, a greater sense of potential and more appealing activities than traditional educational processes.

### **4. Explicate Learning Opportunities**

One of the major advantages of digital learning is it's explicate learning opportunities for students. The digital learning is explicate learning opportunities to the students as they can grapple the fact that learning can be done at any time and place as well, and this type of learning can be done only with the help of digitalization.

### **5. Develop Accountability in Students**

By using the **digital education system** assessment of each and every student becomes more transparent and informative with the real-time examination of performance and auto-generated reports. It offers the students to judge their competency and to measure their performance in detail and come up with relevant solutions on their part. Digital learning is a self-directed process where there is an end number of data, researches, courses, games, entertainment etc. are available. Students can learn so many things and gathered useful information by just browsing online.

## **Conclusion**

As we all know that education plays an important role in the overall development of stable and civilized society, improving human skills, developing the personality of individuals which makes the person knowledgeable, competent and skillful. E-learning is a transformational approach to learning. It is a holistic way of teaching and learning by which the needs of today's digital natives can be met. As per the Union Budget of 2016-17, 10 public and 10 private educational institutions to be made world-class, Digital Repository for all school leaving certificates and diplomas.

Rs 1,700 crore (US\$ 250 million) has granted for 1500 multi-skill development centres. 62 new Jawahar Navodaya Vidyalayas (JNV) has been opened which will provide the quality digital education. Digital literacy scheme has also been launched for covering six crore additional rural households. The Government of India has further announced schemes to digitalize academic records such as degrees, diplomas, mark sheets, migration certificate, skill certificate, etc. from secondary to tertiary-level institutions into a National Academic Depository (NAD).

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