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A cosmos in teaching learning process- digitalization

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Abstract

Digitalization is the integration of digital technologies into everyday life by the digitization of everything that can be digitized. The literal meaning of digitalization is dependence on the development and technology. In order to adapt the environment and to keep pace with new technology-Digitalization is reaching new heights in the Education sector. Although traditional way of teaching can never be replaced by anything, but digitalization can act as supplementary aid or support for effective teaching learning process. We have to keep pace with the ever changing environment as everywhere in Education field technology is coming up. Digitalization has very practical approach in every manner. With the introduction of online learning and e learning tools teaching has become easier and interesting. In education sector, class rooms are becoming smart classrooms with smart boards and smart desks that allow more interaction between teachers and students. The presence of such technology in classrooms is a great challenge to teachers and their roles are also changing from sage-on-the-stage to Guide-on- the side. This paper discusses the importance of digitalization in the field of education and how it can enhance the teaching learning process and how a teacher can face this challenge of teaching through technology. It also throws light on its impact on Higher education.

Keywords: Digitalization, Teaching learning process

“Education has always been a profit-enabler for individuals and the corporation. Education, both conception and delivery, must evolve quickly and radically to keep pace with digital transition. Education is a part of the digital equation”

— **Stephane Nappo**

Introduction

Digitalization is going at very high speed over last few years. It has changed the way of learning by the students. The traditional way teaching learning as waved the way for more innovation methods which involve technology. As the current generation of students is well-versed with laptops, i-pads, and smart phones, these innovative methods of teaching guarantee more participation from students. To cater to the needs of the student’s Higher education institutions various education providers like Pearson, Google, Teach Next etc. are providing software to help the teacher in teaching in class rooms. However, usage of digital technologies in institutes of higher education is still in its initial stages and efforts are being made to fine-tune these technologies to adapt to the needs of University/ College students. First of all teachers need to be trained to adapt and get themselves fit to new technology then only they will be able to encourage the students to make maximum use of the learning in today’s scenario.

Tools of Digitalization

There are several tools of Digitalization in Classrooms:

1. Smart Phones
2. Projectors

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3. Digital Cameras
4. Scanners
5. Computers
6. Internet

Importance of Digitalization

Digitalization is basically a technical process of keeping your data in digital form which is more secure. It targets many digital challenges faced by the society that includes communication services and dissemination of every type of information for all sections of the society irrespective of age, gender and occupation. Majority of Indian population lives in rural areas so, the concept of digitalization can prove to be very helpful to those who are living in far flung areas and who are cut from the major cities. Education can reach them at their doorsteps. They can take maximum benefit from digitalization. Study was conducted by National commission for protection of Child Rights on "Digitalization of Education". The analysis of the study shows that digitalization of schools have positive impact on education of children. Students prefer multimedia education as compared to traditional lecture method and are enjoying more. Their concentration in school and understanding of what is being taught in the class has increased along with their learning skills.

➤ For teachers, technology aided education is a convenient manner of instruction. Also, there is increase in enrolment, attendance and Pragat category students in the last two years.

As a result of the Digital School Initiative more than 760 students came back from English Medium Schools to Zilla Parishad Schools in 2017.

➤ This initiative was supported by community
A Digital learning environment is a tool, just like text book or any other material that are used in classroom. The difference is that it offers a variety of interactive options.

- Ease of access- Students can easily access the study material required for their assignment and projects through internet at global level. They can get extra information about their subjects.
- Motivation_ When students are getting latest information about their subjects/ topics, they get lot of motivation which in turn help them to use more of their creativity.
- Increased participation of students: The blending od technology in education system has also increase the participation of students in classrooms. They come well prepared and have more confidence in sharing their ideas.
- More interaction with teachers: With the use of Digital world teachers can act as facilitator for the students and can also enhance their role as Advisors, experts and many more. Students love to interact with such teachers more who have vast knowledge.
- Learning at their own pace: Students can learn at their own pace because they can have access to the material online at anytime and remain in touch with studies even when they are not able to attend class due to some reasons

Digitalization in the field of Education

Digitalization has great role to play in the field of Education. It can be categorized in the following categories:

1. Teaching Learning

2. Evaluation
3. Administration
4. Research

1. Teaching learning process

- (a) Development of Digital material and distribution of it to the students
- (b) Use of Computer labs. and Language labs.
- (c) Educational Software
- (d) Use of blended learning

2. Evaluation

- (a) Online exams
- (b) Use of software to assess exam sheets
- (c) Use of various tools for digital communication

3. Administration

- (a) Online Admission
- (b) Online enquiry
- (c) Online Transactions
- (d) Biometric Attendance
- (e) Digital Library
- (f) Official Work
- (g) Use of social networking

4. Research

- (a) Using digital tools for Research purpose
- (b) Use of Statistical software for interpretation of Data
- (c) Communication of research through social networking sites, blogs, websites etc
- (d) Keep soft copy of research for online reference

Impact of Digitalization in Research at Higher Education level

Digitalization has great role to play in Research at Higher education level. Digitalization has helped the researchers a lot in carrying out their research smoothly and effectively. They can have access to digital libraries all over the world and search the material related to their studies which otherwise would not have been possible physically. It saves their time and energy. Moreover, Students can take the help of various software's like SPSS etc. available online to interpret their data very easily and accurately. They can explore more in their area of Research through digital world. It is useful for those who don't have access to higher education and for those who are doing jobs and could not do regular studies.

Conclusion

In a nutshell, we are still a long way to go for the concept of digitalization because of non-acceptance by people about its importance. Non availability of Proper infrastructure is also one of the reasons for digital growth. Although Government is trying to bring Dream into reality through Digital India campaign but still it would take a long time to accept this and getting used to such technology. Sometimes digitalization deemphasizes the importance of knowledge through text books or other standard study material but we must accept that teaching learning process could be enhanced only if we use the technology judiciously.

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