

Digital Transformation in Education

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ABSTRACT

Education is revolutionized and redefining for our young generation, now new era of digital and virtual education has initiated across the globe. Traditional classrooms were characterized by sitting in the classrooms for longer time where teachers used to provide information without any visual presentation. In today's world nothing is static rather boost continuous change in our education system. Digital and virtual education makes our education more practical, innovative, inclusive and participatory in an interesting manner. In India we can see the shift of our education from Gurukul system where Guru's Play very significant role in the teaching learning system to digital world where everything surrounds around the children. Due to the rise of new technologies like cloud, virtual data centers and virtualization integrate the system with educational industries which gave enormous opportunities to the students to learn the best around them according to their own ease. Purpose of the Present research is to give overview of the digital education, main components benefits and viable challenges faced by Indian society to become a digital one.

Keywords: Education, digitalworld, teaching learningprocess, teachers, Convenient, innovative, Students

1.1. INTRODUCTION:

In today's dynamic world noting goes static, perennial changes came in all parts of the society according to the different demands of the individual. 21st century, step towards the digital world make our education more innovative and relevant as per the needs of the situation. Digital learning snatch the attention of students and they feel it more convenient to learn by digital sources as it gives more freedom to students to learn from different ways which was quite easy to remember.

Digital education means digital learning in which new technology is used to make teaching and learning more and more adaptive, it covers all domains and parts of the education system. It makes our education system more flexible for teachers as well as for the learners to go ahead as per their convenience in regards to time and pace. Now all persons related with the education system find educational technology more assessable and comfortable as all of them have smoother experience with it. If we look back we can find out that shift from traditional system of education to the new one is evolving at a very fast pace. The previous chalk and talk method is replaced with interactive, blended and participated learning. In this digital system everyone has to be well versed with new technologies and equipments like laptop, smart phones and I-pads. Digital education move society towards the paperless society to make or replace traditional books to e-books, everything becomes electronic and e-learning is the focus of today's learning and for his purpose many software's were developed to help and enhance the effectiveness of teaching learning process.

1.2.OBJECTIVES OF THE PRESENT STUDY:

- The objective of the study is to understand the various aspects related to digital education
- To have knowledge about the concept of digital Education.
- To know in detail about the basic components of Digital education.
- To have an insight about the emerging trends of Digital education.
- To understand the benefits and disadvantages of digital education.

1.3.METHODOLOGY:

For the present research secondary data or information was collected which includes websites, news reports and research articles and publications have been referred to get the in-depth information.

1.4.RESEARCH DESIGN:

After considering the objectives of the present study it was decided that descriptive research is adopted to get the rigorous analysis of research study.

1.5.DIFFERENCE BETWEEN TRADITIONAL AND DIGITAL CLASSROOMS:

Traditional education is bound with face to face learning by sitting for hours to get the knowledge which was restricted to the books, teachers, chalk and talk where everything is explained by teachers and students are expected to write each and everything in their notebooks. These classrooms are teacher centered where memorization of everything was focused and theoretical

knowledge is given priority. Whereas Digital education is totally opposite to this system as Digital education focused more on the student's requirement and is more practical and interactive. It is students centre where constructive approach is focused now a days to make them more and more skilled. In this textbooks are replaced with PowerPoint presentations, e-learning , smart phones and laptops.

Traditional Teaching	E-Learning
Teaching the content	Learning processes
Classroom-centered	Work-centered
Teacher-centered	Student-centered
Concerning the educational context	Concerning each individual
Activity-centered	Result-based
Experts on education	Learning counsellors

Source: E-Learning as a Teaching Strategy Actively Used in FATIH Project

1.6. MAIN COMPONENTS OF DIGITAL EDUCATION:

1.6.1. Basically there are three main components of our digital education are as follows:

- The first one is the content
- Second one is different technological platforms
- Delivery infrastructures

To understand this concept you can take the example of online educational systems which provide virtual education, competitions and competitive exams to the students by making teaching learning process more and more interactive as well as become fun experience for the students by providing good content covering all parts of their syllabi.

1.7. RECENT TRENDS OF DIGITAL EDUCATION:

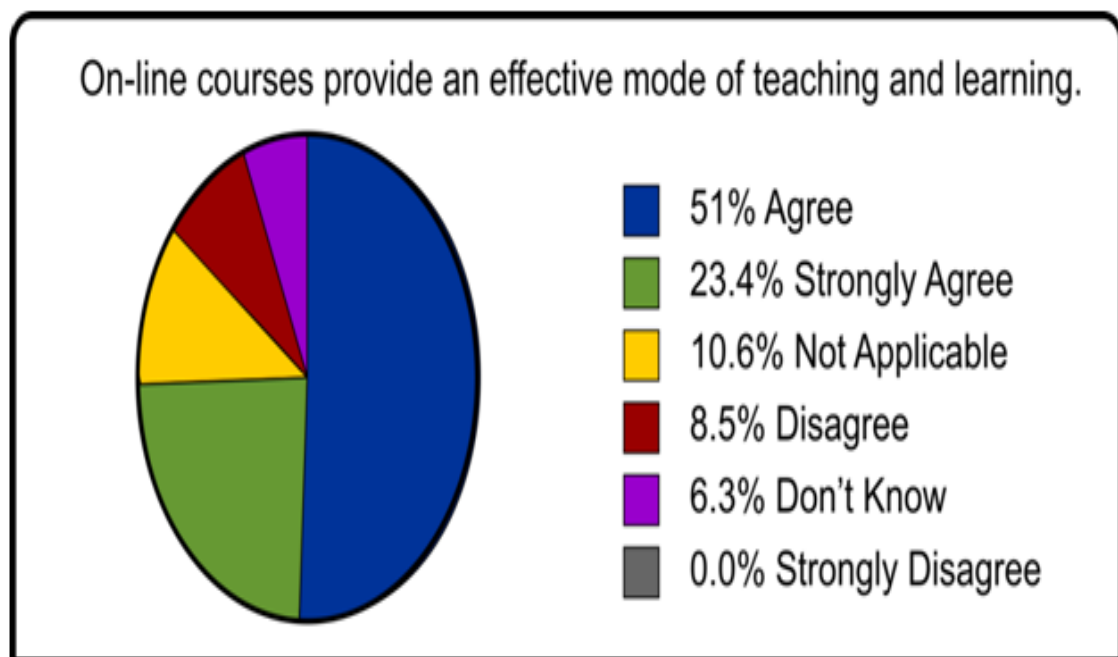
• Flipped Classroom: New Journey Towards Modern Education:

As we know that education is totally revolutionized by the technology. By this students participation have been increased and our education system become more interesting and

practical for the students. In this type of education every student is enjoying as this is actually the aim of our digital education to make teaching and learning process more and more interactive where students motivated internally to get more and more knowledge.

- **VIDEO BASED LEARNING:** Web marketing is also one of the important part of digital education which made our education more exploring and creative including lots of entertainment and fun via use of different software's and platforms .
- **MOOC's (Massive open online courses)and Other On- learning programs:** This is one of the wonderful platform for all the students which aimed boundless participation of the students in different courses of education .After USA ,India is considered to be the largest one in MOOC's market. This provide with unlimited and high quality learning to the students with great internet connectivity.
- **GAME BASED LEARNING:**In today's Y-generation everyone is familiarized with innovative technologies around them for this they should be acquaint with new skills and abilities.K-12 learning or game based learning help students to be in the world of digital education which help them to be an independent one.

The students are taught with the help of computers, LCD screens and projectors which is beyond the conventional methods of teaching. It facilitates the learning process anywhere and anytime.



Source: Student Survey (Taylor Self Study), Fall2018

1.8. REASONS BEHIND GROWTH OF DIGITAL LEARNING:

There are several reasons why online or digital learning is growing day by day

1. FLEXIBILITY:

Digital or on-line education provides wide range of flexibility to the students as well to the teachers. As in online learning mode both teacher and students can go according to their own pace and can set all schedule which suits both of them .Learning through online also helps to learn new skills like time management which helps us to make our work more easier and comfortable.

2. VARIETY OF PROGRAMMES CAN BE CHOSEN:

Due to digitalization of education students get enough opportunity to choose or go for different programs. All universities and institutions now provided number of courses at different levels. Students now got their certificates ,degrees and diplomas without sitting physically for an hour's in the institutions , they can get it without even entering into the universities and institutions.

3. EASY ACCESSIBLE:

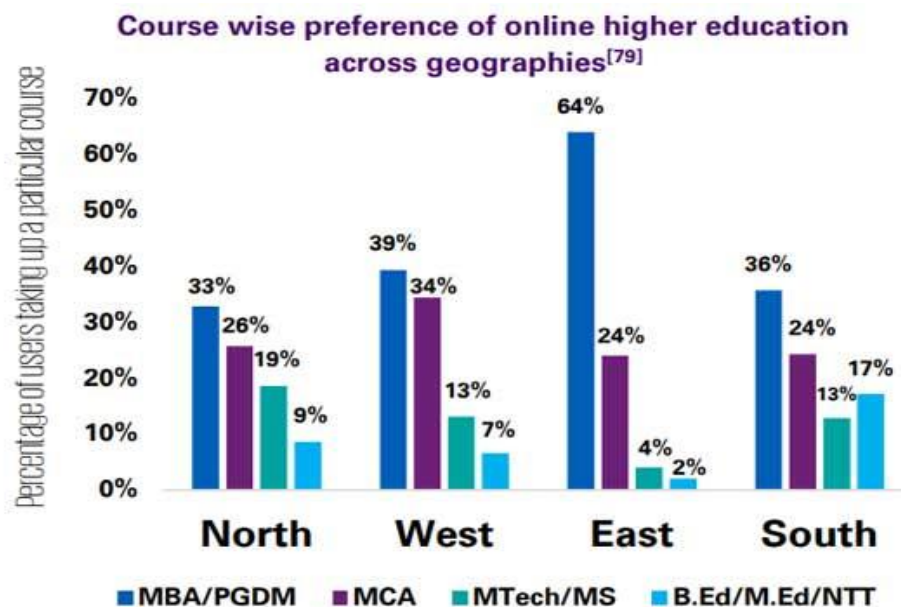
Online education help students or teachers to study and teach from anywhere in the world. As in digital learning there is no need of physical presence or to move from one place to another is not required. We can get online education anywhere where there is good internet connectivity.

4. DIVERSE VARIETY OF LEARNING EXPERIENCES WITH DIFFERENT PROGRAMMS:

Online education fit to the needs and requirements of students and they can get learning through material available online like videos, photos and e-books which ultimately intend to the distinct learning needs, aspirations or cultural backgrounds of individual students.

5.COST-EFFICIENT THAN THE OLD EDUATIONAL SYSTEM:

Traditional education is quite costly as compared to modern education as in modern. Education one can choose different modes of payment with different options, in this we can go for installments, discounts on the basis of scholarship or module basis. it help us to have more financial management and become more comfortable for today's generation. So we can mention in that it is more economical where one have to invest less but results are more productive.



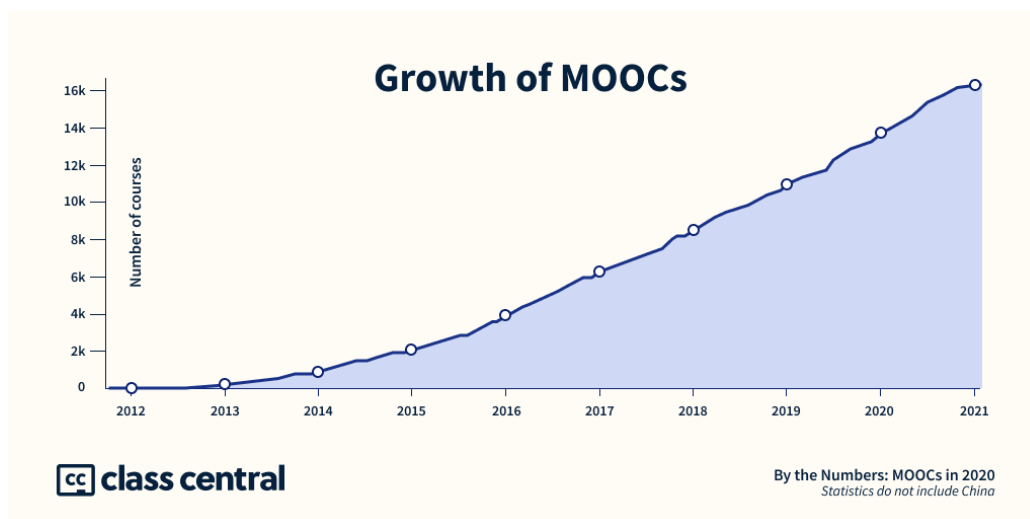
Source <https://www.shiksha.com/mba/articles/online-education-in-india-trends-future-prospects>

1.9.MAIN ONLINE EDUCATIONAL PLATFORMS ININDIA:

Instructive Institutions all around the nation attempted to guarantee that the understudies experience less scholastic loss. These organizations are giving their earnest attempts in leading virtual classes, video conferencing and utilizing of other online stages to transfer the concerned investigation material online. The present possibility of developing E-learning industry is:

India will encounter an advanced upheaval as soon, 500 million new clients will be added to the 370 million web clients in India. Additionally, the effort of the web isn't restricted to the metropolitan scene alone these days, yet it has arrived at rustic regions, as well. Various significant internet learning stages has been given by Union HRD service to help learning.

SWAYAM/MOOC's: These are online based intelligent media courses made explicitly for understudies learning at advanced education level. Numerous courses are endorsed by AICTE..Students can likewise acquire scholastic credits in a lot of these accessible courses. These are accessible consistently.



Source: <https://www.classcentral.com/report/wp-content/uploads/2020/11/growth-2020.png>

E-PG PATHSHALA: This app provide wide range of E-bboks to the students up-to university level which can easily accessed by the students.

DIKSHA (DIGITAL INFRASTRUCTURE FOR KNOWLEDGE SHARING): This portal provides approximately eighty thousand content related to different parts of the curriculum in more than 15 languages are being provided by this portal. Various intuitive exercises and games, quiz, lesson plans, experience based substance alongside worksheets.

CBSE PODCAST: Another digital recording application has been dispatched by CBSE which goes with the name 'CBSE-Shiksha Vani'. This application is open through Play Store for downloading by Android telephone clients.

NDL (NATIONAL DIGITAL LIBRARY OF INDIA): NDL is available for members related to the educational field like academicians, institutions, Universities, exceptional children etc those who are ready to access can visit here to get the information <https://ndl.iitkgp.ac.in/>

IIT PAL: This platform actually conducted various entrance test which many students wants to clear, As this provide various lectures to the students mainly in the field of science which are helpful in cracking these IIT entrance exams.

E-SHODH SINDHU: This platform is mainly helpful to access electronic resources specially for higher education students can take the help of INFLIBNET centre for the same. Many pre reviewed journals and institutions are linked with this portal.

ONE CLASS: Union Finance Minister has proposed for 12 directs for 12 classes in school and use of radio local area programs. Consent has been given to top 100 colleges of the nation to offer

online degrees and courses for advancement of e-learning from 30 May 2020 automatically. PM E-Vidya program will give more extension to instructive innovation new businesses to upgrade computerized training in India. At primary school level, Center is wanting to dispatch a new mission for early education and mathematical skills (Express News Service, 2020).

UMANG MOBILE APPLICATION: School students can access a large number of e-books, Online material, Videos and audios related to different subjects. For this NCERT has given access to books and content on E-Pathshala.

All new drive by the Indian government mirrors that they are anxious to acquire changes computerized learning for the innovative advancement's-learning instruments and advances are being advanced by the Ministry of Electronics and Information Technology as pivotal for communicating education. The government has started different projects to further develop innovative work in computerized technology. The government likewise plans to give monetary help to factors engaged with the development of online computerized drives including preparing of faculty, development of value content and so forth at different levels.

1.10. ADVANTAGES OF DIGITAL LEARNING:

We can categorize advantages in different headings like for Institutions, for learners, for teachers and for parents some of the important points are as follow

Institutions can easily manage their task and activities with the help of online education by this they can save their time, cost and resources as well, online exams can be easily conducted and results of the exam can be declared easily and early also, Students can learn things in innovative way according to their own pace, their learning will be more comfortable and creative they take learning as fun activity not as burden of hectic. Students can learn fast and can retain the things for longer time and enjoy interactions with their tutor. They can make access to all things very easily and accordingly manage all activities. If any student is absent then they can take all the material easily or can go ahead with the content already uploaded. For parents also it is very easy to know their child progress as some times it become difficult for the parents to go school or college in their busy schedule so online learning help them to collect information about their wards. Digital education is boon for the teachers as well as they can maintain all records in softcopy

1.11. CONCLUSION:

After analyzing each part of digital education we may conclude the online education is quite innovative, effective and creative which fulfills the demands of today's generation this can be one

of the big reason that learners easily adopt modern educational system and collaborate with each other to adapt this new learning situations all over the globe. No ,doubt there are many challenges which a students has to face but these challenges overcome with the help and facilitates provided by e-learning. Today learners are ready to accept this shift from traditional teaching learning process to the innovative learning process.It also become boon for the students who are from rural areas .

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