Digital Education in India: Empowering education through technology

Kumkum Sinha*

Kali Charan Modak**

Dr. P.K Jain***

***Assistant Professor, Pioneer Institute of Professional studies, Indore**

****Assistant Professor, Institute of Business Management & Research, IPS Academy, Indore**

*****Principal, Pioneer Institute of Professional studies, Indore**

Abstract

Information technology (IT) is playing an important role in economic growth, as well as other dimensions of social development. Information technology is playing a pivotal role in the upliftment of Indian education system. With the help of Information technology education is globally connected which is further enriching the quality of education, making one aware of new technologies as well as improving the standards of living. This paper reviews several interrelated aspects of the role of information technology in the evolution of India's education system. It also covers the various aspects of digitization which are essential for a developing country like India. If the nation implements these techniques surely India will be competing with the top developed nation and this will further leverage the economy. The paper concludes with an overall assessment of various facets of IT in the context of the Indian education.

Keywords- Digital India, Digital Technology, digital education, e-education

Introduction:

The education system in India changing very fast due to digitalization the education system is taking the new shape. In India digital education is taking the place of the traditional classroom training. With the development of Internet, mobile phones, mobile apps, tablets, laptops, and other modern devices, things are becoming more and more digitalized in today's world. The education system in India's metros and other cities has also become modernized to a great extent,

making way for digitalization. Education sector in India has long expected and renovate to meet the mounting demand for a modern education system that is accessible to all. Children and youth in India have in the last decade turn into more and more technology-driven, enlightening substantial probable and willingness to imbibe and learn using digital media.

Basic difference between digital education and the class room education

Previously classroom teaching was limited to textbook knowledge, teachers using the blackboard to explain things and students writing down notes in copies. In traditional method of teaching the major focus done on making notes and memorization. That methods is teacher centric which was less interactive but these days classroom teaching has become more and more interactive nowadays with the use of digital methods such as PPTs, video presentations, e-learning methods, practical demos, online training and other digital methods or platforms. These methods attract students more towards the study.

Literature Review:

Dua S. et al (2016) discussed that with passage of time, the education system all over the world has gone through a dramatic change. The traditional education system no longer fulfills the modern day complex needs where everything is dynamic and evolving at a very fast pace. There is a huge amount of transformation that takes place in the present world in every nanosecond. Therefore, a new and modern way of education is required to handle such transformation arising as a result of creation of huge amount of information in a systematic manner. Thus, to resolve the shortcomings of the traditional education system, the world is moving towards digital education which addresses all the issues and challenges of traditional education. Digital Education can be defined as the use of a combination of technology, digital content and instruction in the education system to make it more effective and efficient than the traditional education system. Through this research paper, an attempt has been made to discuss the upcoming trends in digital education system that will shape the future of our coming generations for the better.

Objective of study:

- To study the need and importance of digital education in India.

Research Methodology:

This study is conceptual in nature. This paper reviews several interrelated aspects of the role of information technology in the evolution of India's education system. It also covers the various aspects of digitization which are essential for a developing country like India.

How India can transform the education sector through Digitalization (Innovations in the area of Education through Digitization):

E- School- Government should come out with this kind of concept of E- School which can be accessed by any one from anywhere.

E-classroom- It should be like virtual classroom which can be accessed with the help of internet.

E-Basta- e-basta is another cherished initiative by the government aimed at making school books accessible in digital form as e-books to be read on tablets and laptops.

Digital sikshakh- Digital sikshakh is a concept in which we can provide video lectures on all subject.

E-Teaching Learning-In this concept we can take online test of respective subject and we can give assignments to the students.

Massive Online Open Courses- Small diploma courses can be designed through the help of MOOCs.

How hybrid, traditional and online learning methods can change education system in India?

With hybrid, collaborative online learning, students get the on-campus experience and get 'the best of both worlds'.

- Live and interactive- With the help of digital learning learners can achieve excellence, quality education anytime and anywhere. It gives learners a more interactive platform for knowledge and appraisal, whether it is profession and technical learning or project-based learning.

- Free online courses open up avenues for students. People are more confident to take these courses and with the help of this they can sharp the skills and can contribute towards the development of Indian

- Online education gives students an opportunity to plan their future course of action and fast track their careers

- Through live and interactive digital learning, tech firms are imparting comprehensive and specialized knowledge which will enable children and adults to learn according to their need.

- Online education are changing the way India learns by giving students an edge in learning, along with an opportunity to progress in their career.

- The problem of unavailability of teachers can be resolved and online education can benefit the student's at large level.
- The problem of infrastructure can be solved with the help of online education.

Social media can be used as a learning tool for digital education:

- Social media as a tool can be used to enhance e-learning experience and make it more engaging, relevant and culturally varied.

- Peer review system can be developed so that student will be able to share feedback on each other's assignments that will increase their collaborative learning.

- Social media provide a platform where student can interact with each other on real time basis.

- Social media helps in sharing online educational resources this furthers helps to improve the quality of education along with shaping the future of coming generation.

- The main aim of online education is to provide a platform to the spurring talents to connect with experts over the globe.

How does digital education benefit the child?

- With the help of digital education, classroom teachings have become more interactive. Children tend to be more attentive. The digital content makes the learning more effective. Here, sounds and visuals go hand-in-hand which is easy for the child to grasp.

- With the help of digital resources students give attention to details of the topic. Online education content increases the knowledge base of the students.

- Using various digital resources like tabs, laptops or notepads, instead of pens and pencils, motivates children to complete their tasks speedily.

- By reading eBooks or accessing study materials online, they learn new words and expand their vocabulary.

- Student hesitates to ask a question to his teacher in classroom training. But with digital education, even if he does not understand anything at the class he can go with the recorded lecture and clear his doubt any time anywhere.

- With the help of digital education Even if any student miss certain classes, they can access the class notes and download files from the digital resources.

- Nowadays, online study materials are easily available. Even if the entire education system is not digitalized, yet students can leverage the power of digital content depending upon their capabilities. So students, can access exclusive online study modules of various subjects, which help them to enhance their knowledge even lacking a teacher.

- With online education, students can even auxiliary connect with distant counselors and faculty to seek guidance or resolve queries.

Benefits of digital education to rural students:

Digital education is breaking the numerous barriers that are preventing students in rural India from receiving quality education in the physically bound classrooms:

- Digital technology will empower these students to get quality education, anytime and anywhere.

- It will enable them to save time, by having more freedom to move at their own pace as well as help them save money.

- It will assist working students to not limit their work schedule, helping them to not lose on wages that they can potentially earn.

- With the flexibility of online courses, students can learn more and more.

The future implications of the shift to digital learning:

With the Digital India programme's vision to convert India into a digitally empowered society and knowledge economy, the education sector in India is hovering to eyewitness major growth in the years to come. Technology-led reach and easy access will bring about a socio-economic difference in the lives of Indian learners.

Disadvantages of digital education for children:

However, digital education also has its disadvantages:

- Expensive: Digital education is more expensive because it needs lots of digital infrastructure.
- Infrastructure: To have digital education means, you need to have a proper infrastructure not only at schools but also at homes, on the whole reasonable Internet connectivity.
- No fixed schedule: Online learning has no fixed schedule due to this student lose their interest over time for successful implementation of online education requires much better management and rigid schedules, whereas in traditional classroom teaching students has to finish everything on time.
- Reduces creative abilities: student can access the answer of all assignment and quizzes on internet by this they lose their creative abilities.
- Lazy approach to studies: This may direct to poor study behavior and can build up in children a lazy attitude. Digital education can also create children forget the basic way of studying. Even for simple problems and homework, they are used to in search of help from the internet.
- Security: Security is a big issue in online education, with the use of internet students can access the thing which is harmful for them.

Conclusion:

The initiative of digital India can move the Indian education to the next level and can bring education revolution in India. With the imminent of Digital India campaign, India will have a stout and influential digital infrastructure. Digital education has its pros and cons. So, students need to be properly guided by their parents and teachers every time they are going to use the online technology.

References:

- Bollag, B., and Overland, M.A. (2001) Developing Countries Turn to Distance Education," Chronicle of Higher Education, 2001, pp. 29-22.
- Burn, J., and Thongprasert, N. (2005) A culture-based model for strategic implementation of virtual education delivery," International Journal of Education and Development using Information and Communication Technology,2005, pp. 32-52.
- Dossani, Rafiq, D.C. Mishra and Roma Jhaveri (2005), Enabling ICT for Rural India, Project
- Report, Stanford University and National Informatics Centre, India.
- Dua S. et al (2016) Issues, trends & challenges of digital education: an empowering innovative classroom model for learning, IJSTM, vol. 5, issue 5, pp. 142-149.
- Mason, R., and Weller, M. (2000) Factors affecting students' satisfaction on a web course," Australian Journal of Educational Technology,2000, pp. 173-200.
- Singh, Nirvikar (2007), ICTs and Rural Development in India, Report to RGICS and IDEI (I),
- New Delhi.
- http://indiatoday.intoday.in/education/story/digital-learning-taking-over-india/1/774514.html
- https://en.wikipedia.org/wiki/Digital_India