

# A Study on Digital Learning Scope and Challenges in Indian Society

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## Abstract

Education plays necessary role in overall development of people thereby conducive vastly to the development of a nation. Education globally is one amongst the necessary sectors to witness revolutionary changes in recent times. This happens primarily attributable to digital revolution taken place all across the world. The standard Indian room was once characterized by students sitting through hour-long session, teacher accustomed discuss the items with none visual presentation. Now, because of digital technology, it's creating life easier for each students and educators. Digital education is fun learning for all cadres and significantly effective for kid learning because the innovative audio-video feature boosts the psychological feature parts in an exceedingly child's brain. faculties square measure progressively adopting digital teaching solutions in their tutorial, and making an attempt to form the room setting a lot of comprehensive and democratic. The INFO-TAINMENT combination concerned in digital education makes it a lot of sensible, applicable and relatable to our life and surroundings in a remarkable manner. In India, from previous few years there has been a substantial rise in Digital and Live Virtual lecture rooms at completely different levels of learning. With evolution of technologies like cloud, virtual knowledge center's and virtualization there's immense potential for technology to be integrated with the Education trade. the aim of this analysis is to present summary of digital education, elements of digital education, edges of digital education in Asian nation, the long run scope And doable challenges of an Indian society for moving towards digital education.

**Keywords:** Digital education, Cloud Computing, Virtualization, INFO-TAINMENT.

## 1. Introduction:

Digital education means that digital learning. it's a kind of learning that's supported by digital technology or by educational observe that produces effective use of digital technology. Digital learning happens across all learning areas and domains. Digital education provides win-win opportunities for all, at one aspect faculty, faculties and alternative establishment finds the fast rise in enrolments and accessorial revenue attributable to digital education, and on alternative aspect students read this as a versatile and alternate possibility permitting them to check as per their convenient time and pace. academics and professors too notice it convenient to arrange their teaching plans assisted by digital technology. Teaching and learning becomes a electric sander expertise because it includes animations, gamification and audio-visual effects.

Over the previous few years digital education in Asian nation is evolving at quicker pace. it's dynamic the means students learn completely different ideas and theory at school and faculties. The standard chalk and speak methodology at school and a faculty has been slowly dynamic with a lot of interactive teaching strategies as faculties and faculty's square measure progressively adopting digital solutions.

Digital learning guarantees a lot of participation from students because the current generation of scholars squares measure well

versed with laptops, I-pads, and smartphones. There square measure completely different personal players within the field of digital education like Educomp, Tata category Edge, Pearson, and Teach Next WHO square measure unendingly interact and developing completely different interactive package to assist academics in room teaching.

Component of Digital Education: Primarily Digital Education has three components:

- ❖ The content
- ❖ The technology platforms
- ❖ The delivery infrastructure

To understand in higher approach let's take associate example of BYJU's, one in every of premier organization providing digital education for college sections, school sections and varied competitive exams. They claim they're going to build teaching a fun expertise for your kid. They're providing sensible content for every section covering all the tutorial details. The entire parts area unit loaded in digital pill by Samsung or Lenovo. They're having sensible delivery infrastructures, once you've got placed ordered as per your demand, the merchandise are delivered at your home and thenceforth they're going to provide on-line demo to use identical.

## 2. Good Thing About Digital Education

### 1. Advantages to educational Institution:

- ❖ Academic establishment will simply manage their activities with the assistance of digital education. A number of the necessary advantages are:
- ❖ Time and cash of the establishment are saved.
- ❖ They'll simply attempt to conduct on-line communicating and publish the communicating results quickly.
- ❖ It makes data to transfer simply and equally from teacher to every and each student with the assistance of effective and advanced technology based mostly teaching tools.
- ❖ It facilitates in making interest among student, which can help them in learning several ideas through interactive-audio-visual teaching contents.
- ❖ Benefits over different faculties and faculties that cannot offer such integrated feature-based learning and management system.
- ❖ Straightforward communication between establishment and oldsters for student connected educational activities.

### 2. Advantages to Students:

- ❖ As all the study contents are schooled within the room through transmission slides, it creates interest and enthusiasm among the scholars. Learning are fun for them. They're ready to con several ideas through interactive audio-visual teaching contents. Another advantages to them are:
- ❖ They'll simply read their daily timetable, category assignments, any events planned in class etc. from home.
- ❖ They're ready to prepare comes and presentation on-line.
- ❖ They'll provide on-line communicating and examine their results.
- ❖ They'll simply collect teaching contents of incomprehensible lecture on-line.
- ❖ They'll access library on-line

### 3. Edges to Parents:

- ❖ In today's world, it's tough for fogeys to go to the varsity or schools as a result of their busy work schedule. Digital education helps the fogeys to look at all the data of their ward from comfort of their home or workplace. A number of the opposite edges are:
- ❖ The online facility of digital education helps the fogeys to look at their child's group action record, progress in curriculum, timetable, etc.
- ❖ They will simply check the topic instructed at school, preparation given to their ward, any future assignments and comes and guide the ward consequently to participate and apply.
- ❖ Simply read internal and semester examination schedule and results.
- ❖ They will simply pay the varsity fees and different activity charges.
- ❖ They will get info on varied college events, notices, holidays and may track the presence of ward within the room /outside the category.

### 4. Edges to Teachers:

- ❖ Digital in education conjointly creates interest among lecturers. It helps them to create teaching interaction among students terribly effectively. Another edges are:
  - ❖ It helps the teacher to manage their category time and teaching content effectively.
  - ❖ They will simply avail the varsity similarly as category-connected info through net.
  - ❖ They will check daily timetable, assignments, teaching history, events and vacation list, self similarly as student group action etc.
  - ❖ It'll helps in explaining the tough content simply and in effectively.
- ### 5. Edges to Principals:
- ❖ Some of the vital edges to principle are:
  - ❖ Straightforward to manage all the school/college activities.
  - ❖ Just in case if the he's inactive, he are ready to access all the varsity info on-line and manage the varsity simply.
  - ❖ He will read teachers' teaching progress and students' performance.
  - ❖ It'll helps in allocation of sophistication and subject to a lecturer per his/her interest and skill.
  - ❖ He will assign tasks to different employees members and provides remarks for his or her works.

## 3. Scope of Digital Education in India

Globally India holds a very important place within the field of education. There area unit quite one.4 million faculties everywhere the country having over 227 million students registered across totally different fields and quite thirty six, 000 educational activity institutes. India has become the second largest marketplace for digital education when the USA. However, there's still plenty of scope for additional development within the field of digital education. There area unit some major investment and developments that are taken place to market the digital education in India. A number of them are:

NIIT, that is pioneer in coaching and skills development is attending to supply on-line courses from leading international universities to concerning five hundred thousand individuals over subsequent 3 years with US-based education.

- ❖ A digital education start-up, Byju's, has raised US\$ fifty million from the Chan Zuckerberg Initiative, based by Facebook founder Mark Zuckerberg for the event of digital education in India.
- ❖ On-line and classroom-based certification courses offered by Neev information Management Pvt. Ltd below the brand EduPristine has raised US\$ ten million from Kaizen Management Advisors and DeVry INC for the event of digital education in fifteen cities across the country.
- ❖ Intel Corporation, a USA primarily based transnational technology firm is attending to offer optimized learning solutions and extended computing technologies to students and faculties across the country.
- ❖ Within the field of data technology, the Cisco Systems plans to speculate US\$ a hundred million in India over subsequent two years for the event of digital education which is able to embody gap of six new innovation labs, which is able to facilitate to coach around 250,000 students by 2020.

- ❖ Tata Trusts that is that the a part of the Tata cluster and Khan Academy area unit beginning web- primarily based free learning portal to produce free digital education in India.
- ❖ Ignis Careers and SEED, Hyderabad-based education start-ups area unit operating to produce affordable college education with the assistance of digital technology.

#### 4. Challenges of Digital Education

Some of the key challenges for digital education in India are:

- Resource and net property connected challenges.
  - ✚ One of the most challenges for digital education in India is poor net property in rural areas and a few a parts of urban areas. Majority of population across India has still no access to net and an oversized population in rural areas continues to be illiterate within the field of digital technology. Additional Innovations needed to create the digital education additional interactive and sturdy.
- Shortage of trained lecturers.
  - ✚ A major obstacle within the use of digital education in geographic region is that the lack of information and skills. There's a shortage of lecturers, formally trained on digital technology. In a number of the tutorial establishment in rural areas, college teacher and faculty professors aren't curious about mistreatment digital tools for conducting categories. They feels that plenty of data is explained to the scholars at one undergo the digital medium and those they like ancient teaching strategies of chalk and flat solid. In rural areas, primary lecturers and senior lecturers area unit reluctant to urge trained and adopt digital technologies for digital education at school as a result of {they area unit they're} visible that these turbulent technologies are dead set replace them for good.
- Language and content connected Challenge.
  - ✚ Languages is one amongst the most barriers for the event of digital education in Asian nation, there square measure many completely different languages in numerous state are spoken all across country, pushing all the digital content all told these regional languages a while becomes tough for the agencies.
- Poor maintenance and up gradation of digital instrumentality.
  - ✚ In rural areas maintenance and up gradation of digital instrumentality is one amongst the foremost challenge. This is often mostly because of monetary fund constraints by government. The digital education comes in rural faculties don't seem to be self-sustainable. At initial stage varied comes are launched by government for the event of digital education, but later, they need not been taken tutelage for the upkeep of digital instrumentality that affects the digital education development in rural areas.
- Insufficient funds
  - ✚ Digital education involves effective and economical usage of acceptable and latest hardware and code technology on the market within the market. In developing countries like Asian nation, digital technology implementation into education systems could be a tough task because it needs vast funds and infrastructure. Through Digital Asian nation programme, the govt. has secure accessibility of funds for technology implementation however lack or insufficiency of finances ends up in redundant and obsolete infrastructure and equipment's in rural faculties.

#### 5. Objective

- The objective of the analysis paper is to study:
  - ❖ Element of Digital Education.
  - ❖ Good thing about Digital Education to completely different neutral.
  - ❖ Scope of Digital Education in Asian nation.
  - ❖ Challenges of Digital Education

#### 6. Literature Review:

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

- Jinal Jani and Garish Tere (2015). Digital India programme introduced by government of India is important for the development of digital education in the country. Digital India drive is a project initiated by Government of India for creation of digital empowered society across the country. 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 help in creating job, providing high speed internet and digital locker system and so forth. Digital India has three important components namely digital infrastructures creation, digital delivering services and resources and digital education.
- Shikha Dua et al., (2015). They have discussed the different issues, trends and challenges of digital education in India and suggested the empowering Innovative classroom model for learning. The future trend of digital education includes digitalized classroom, video based learning, and game based learning and so forth. They have pointed out different challenges of digital education India and suggested measures to overcome these challenges. Constant reforms required in schools and teacher for the development of digital education in India.
- Himakshi Goswami (2016). The study highlighted the different opportunities and challenges of digital India programme in India. Digital India programme introduced by government of India will help in transforming country into a digitally empowered economy. This will help government of India to integrate the Government Departments with the people of India. The main purpose of this programme is to reduce the paper work and help in providing different Government services electronically to citizens. It describes the different opportunities of the programme for the people of the country. India is having different languages, culture, and customs, food habits, laws and traditions. The purpose of digital India programme is to integrate whole country digitally but languages would be the main challenges in the implementation of such programme.
- Jayesh M. Patel (2017). There are many web based tools which can be used in the classroom for digital education like twitter, Glogster, Prezi, Diigo, Dropbox, and Moodle. Teachers and students are interested in web based digital learning but because of lack of knowledge they are not initiating the same. Web based tools will make the learning interesting and students will get motivated which normal classroom cannot do. Currently the teacher centric approaches are making learning boring even for interesting 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.

#### 7. Methodology

The main focus of Qualitative analysis strategies is providing a

whole image of things with the aim of understanding of behavior and inter-relations. The study is based upon the secondary knowledge. The analysis for this paper was conducted through literature review, with none empirical works being conducted. an outsized resource of written communication was used, including books magazine articles, tutorial journals, similarly because the websites.

## 8. Conclusion of Study

Education sector in Asian country has seen a series of fast growth in last few years that helped to remodel the country into a data haven. The study clearly points that development of education infrastructure is needed for the event of digital education across the country. this may cause significant increase in infrastructure investment within the education sector. Democratic governance, English speaking tech-educated talent and a powerful legal and belongings protection framework are needed for the event of digital education in Indian society. Government of {india|India|Republic of Asian country|Bharat|Asian country|Asian nation} has conjointly taken major Initiatives for the event of digital education in India like gap of IIT's and IIM's in new locations similarly as allocating academic grants for analysis students in most government establishments. As per the Union Budget 2016-17, ten public and ten personal academic establishments to be created first, Digital Repository for all college going away certificates and diplomas.Rs 1,700 large integer (US\$ 250 million) allotted for 1500 multi-skill development centres.62 new Jawahar Navodaya Vidyalayas (JNV) to produce quality digital education. Digital acquirement

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