

# Digital Education: Ensuring Equitable Use of Technology, NEP 2020

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**Abstract:** Education is key for achieving full human potential, developing associate degree just society, and promoting national development. Republic of India could be an international leader in data and communication technology and in different last domains. The Digital Republic of India Campaign helps to rework the complete nation into a digitally sceptred society and information economy. Education on one hand can play a crucial role during this transformation, technology itself on the other hand, can play a very important role within the improvement of academic processes and outcomes. Thus, the connection between technology and education in the slightest degree levels is biface. The proliferation of digital technologies in recent times is delivering radical changes within the method education is being delivered and received. The reach of academic programs is rising day by day with the digitalisation of education. However, the advantages of online/digital education cannot be leveraged unless the digital divide is eliminated. It's vital that the utilization of technology for on-line and digital education adequately addresses issues of equity. This paper delves into the trends of digital education in the Republic of India, just access to technology for eliminating the digital divide and also the varied blockers that hinders and enablers that promote acquisition of just digital education.

**Keywords:** Just Society, National Development, data and Communication Technology

## I. INTRODUCTION

The global education development agenda mirrored within the Goal four (SDG4) of the 2030 Agenda for property Development, adopted by Republic of India in 2015 - seeks to "ensure inclusive and just quality education and promote long learning opportunities for all" by 2030. during this regard, the National Education Policy 2020 acknowledges the importance of leverage the benefits of technology to boost multiple aspects of education to fulfill the present and future challenges in providing quality education for all. New circumstances and realities need new initiatives. The recent rise in epidemics and pandemics necessitates different modes of quality education whenever and where ancient and in-person modes of education don't seem to be doable. This has brought 'Digital education' into prominence that's providing each academics and students new opportunities to show and learn thereby making certain larger participation within the overall learning method.

## II. DIGITAL EDUCATION

It is the innovative use of tools and technologies throughout teaching and learning to reinforce the training expertise. It's a mix of technology with digital content and instruction that offers students part of management over time, pace and place.

### 2.1 Background of Digital Education

The roots of early kinds of digital/online learning has been derived back to translating an entire room course info into a distance education setting, as well as similar content and assignments that might be accessed through the print materials, CD-ROMS, and video conferencing to facilitate communication. It then bit by bit grew to the utilization of tv later on to the utilization of computers alongside teacher-student interactions in an exceedingly ancient room. Digital learning evolved with the advancement of the net within the starting of the twenty first century. varied on-line courses were

developed for college kids that proliferated across the boundaries. The impact of the net on education as a paradigm shift, has helped digital education to require up house and its gift type.

### **2.2 Trends of Digital Education in Republic of India Social Media**

Social Media as a learning tool has progressed in an exceedingly huge method. It's an important platform to share and exchange data anyplace, anytime. Majority of scholars associate degreed academics use social media as an integral part of the full e-learning expertise. it's additionally a very important supply of generating networking opportunities to make social activities and prospective employment on a cheap basis.

### **2.3 Interactive learning Resources**

The proliferation of learning apps, learning is not any longer confined to a standard room got wind of. The training method is being re-wired with these innovative digital aids. Interactive learning modules mistreat the simplest of technology by being ready by educators to counterpoint the teaching-learning method.

### **2.4 Digitized classroom/Flipped category rooms a growing Trend**

An entire revolution within the method we tend to learn these days has been brought by Technology. Academics teaching within the room will capture the scholars and also the full strength within the category by digital screens, facilitating every kid to urge constant base content and input from the academics. This feature of the digital era has enhanced the scholar engagement because it combines varied tutorial designs. every student gets in touch to best education, that isn't straightforward to impart by the normal white chalk and black board teaching. This new learning is additional attention-grabbing, customized and pleasurable. With this technological inclusion within the faculty teaching the scholars feel learning as pleasurable, easy, competent and particularly attention-grabbing. The aim of an educator ought to be to form such an environment that makes each student need to check.

### **2.5 Massive open on-line Courses (MOOC's)**

These platforms are enabling self-learning in an exceedingly crucial method. it's facilitates scholars and dealing professionals to check at their own convenience from anyplace and at any time. A range of courses punctually certified by institutes are offered below this platform. Growing trends in the Republic of India indicate that there's an ever increasing need among students to stay upgrading their skills, for which, learning supported MOOC's could be a boon for them. MOOC's are a sure-fire trend in achieving the goal of self-learning by providing just access to top quality learning material and digital content to any or all. a vast open on-line course (MOOC) is a web course geared toward unlimited participation and open access via the online. Republic of India is taken into account to be the largest marketplace for MOOCs within the world when the USA. Since the population of the Republic of India is big, huge open on-line courses (MOOC) are like gateways for heaps of Indians in terms of delivering an academic revolution. on-line distance learning programs provide a nice chance to avail top quality learning with the assistance of net property.

### **2.6 Audio-Video primarily based Learning**

This kind of learning is turning into fashionable among college students since it combines learning with fun. This medium of teaching-learning is very interactive in nature. Students are excited to find out new ideas exploiting digital mediums like academic apps, podcasts, ebooks etc. Video-based learning as an area of digital promotion has equipped the Indian Education Sector and has created education partaking, diverting and exploring. It allows learning with a pedigree of learning out of leisure with creative thinking, fun and diversion on cards via the extraordinary Apps, podcasts, videos, interactive code, e books and on-line interactive electronic boards. Kids are excited and operative with interest to manage the showcase via their intelligence, exploring the weak techno skills of academics and assisting them publically proudly and with honor and recognition.

### **2.7 Game Based Learning**

Game based learning is the next massive issue which will redefine the digital way forward for education in Asian nations. This kind of learning creates an atmosphere where the learners will simply relate themselves to what's being instructed to them in an interesting method. a huge open on-line course (MOOC) is an internet course aimed toward unlimited participation and open access via the online. Asian nation is taken into account to be the most important marketplace for MOOCs within the world once the USA. Since the population of Asian nations is large, huge open on-line courses (MOOC) are aforesaid to gateways for loads of Indians in terms of delivering an academic revolution. on-line distance learning programs provide a nice chance to avail top quality learning with the assistance of web property.

### **2.8 Equitable Access to Technology**

The digital revolution is delivering radical changes within the method education is being delivered and received. However, all the scholars don't have equitable access to technology. equitable access to technology refers to any or all students having access to technology and data no matter their quality, socio-economic standing, age, ability, or the other quality. It's not solely integral, however additionally an elementary part to supply opportunities to each student to find out and acquire the information and skills that they have to become digitally savvy voters. A scarcity of equitable access to technology and data deprives students of learning experiences and limits their opportunities in future. It's vital to say here that the access to technology is over simply providing devices and property to students. It's additionally ensuring that each student has the chance to find out a way to use this technology. Asian nation has the world's second largest system of education. Therefore, the equitable access to technology matters as a result of the push for digital mode of education has surfaced the 'digital divide' within the society a lot in recent times. a considerable section of the population still persists whose digital access is very restricted. Digital learning in Asian nations is going to be the key face of future education, thus efforts should be taken to make sure and promote equitable access to technology. National Education Policy 2020 addressed the considerations of equity in on-line and digital education and suggested the improvement and enlargement of existing digital platforms and on-going ICT-based academic initiatives to fulfill this and future challenges in providing quality digital education for all.

### **2.9 Blockers that Hinders Acquisition of Equitable Digital Education**

The state of education in Asian nations is dismal, particularly in rural areas. The out-of-date ways of teaching, shortage of academics, inadequate student-teacher quantitative relation and lean teaching resources are the foremost challenges in these areas. However, with conversion of education, students in these areas are being instructed with the assistance of technology; however some blockers still exist that hinders the acquisition of equitable digital education in these areas. The prerequisite to digital education is uninterrupted power supply. an extremely varied variety of hours of power accessibility blocks the dissemination of quality digital education. the supply of web property additionally blocks the equitable use of technology for education. An accessible, uninterrupted and high speed affiliation continues to be a dream for several in rural, exhausting and remote areas. Thanks to economic inequality, weaker sections of the society are neither ready to get smartphones or laptops, nor ready to subscribe to high speed broadband web. Thus, quality digital education isn't attainable. The non-familiarity of academics and students with digital tools and the way to integrate and use them for teaching learning purposes solely adds to the hindrance of guaranteeing equitable access to quality education.

### **2.10 Enablers which will promote acquisition of equitable Digital Education**

To achieve equitable digital education in future, focus should tend to the policies that bridge digital divide furthermore as addressing the challenges mentioned on top of. Uninterrupted power offered to each household can guarantee adoption of digital technology by one and every one. Low knowledge rates and accessibility of comparatively cheaper handsets can facilitate dealing with inequities. For productive adoption of technology in education, digital acquisition additionally must be addressed . school development programs covering digital pedagogy that mixes digital skills with core principles of teaching-learning method ought to be organized by the officers Students ought to even be nurtured to develop a positive perspective towards digital technology, acquire basic proficiency to interact with digital tools, show safe on-line behaviors, and follow cyber-security protocols with digital acquisition programs. it's only digital technology finds an area

all told program areas that our learners are going to be ready to absolutely take pleasure in AN education increased by digital technology. the present mass media, like tv, radio, and community radio ought to be extensively used for telecast and broadcasts for those whose digital access is very restricted. Such academic programmes ought to be created obtainable 24/7 in numerous languages to cater to the varied wants of the scholar population. appropriate digital devices, like tablets with preloaded content, ought to be thought of, developed and provided to students and academics.

Cost Effective Digital learning is a value effective manner of education as compared to ancient learning. This can be directed towards each learner and academics. In digital learning, here may be a sensible probability that you just don't need to pay extortionate amounts of cash to amass textbooks faculty|for varsity} or college. As textbooks typically become obsolete once a definite amount of your time, e-learning is certainly {a value|a price|a value} effective manner of learning attributable to the reduced cost.

Comfort Zone temperature may be established in digital learning as you'll be able to study at the time that suits you. just in case of ancient learning wherever all the scholars need to give within the category once the teacher is teaching. An equivalent isn't the case with digital education. In digital education, the scholar will study at the time of his own comfort.

### **2.11 Challenges of Digital Learning and Live to Beat Them**

Digital Learning has become very fashionable with the amount of your time. however it imposes sure challenges which require to be overcome. somebody justifiedly aforesaid, "Digital learning ought to be a lot of concerning the human bit that simply machines". the subsequent at the challenges of digital learning in conjunction with the measures to beat these challenges:

Resistance to vary each improvement has 2 sides of the coin, with one resulting in advancement and development and alternative relates to sure challenges related to the implementation of this advancement. The strangeness of staff towards technology is one of the largest challenges of Digital Learning, that the managers ought to work with it. folks ordinarily resist modification, though the changes are superior to what they'd antecedently. they may not trust that a technology-based learning program is as effective as interacting with a teacher. It is a proven fact that eLearning implementation will produce monumental modification inside an organization, therefore implementers will expect to face some resistance. To beat this resistance sure measures may be taken Refresher benefit: Feature of multimedia system learning permits to make the fabric a lot more participating and easier to assimilate. At the time of refresher, such learning materials are at their fingertips once they need it. this may alter to complete the training inside a span of your time. Effective communication processes: Communication is the key to include an associate degree digital Learning programme effectively. Communication can alter to know and settle for your digital Learning program quickly. It's vital that trainees ought to apprehend what edges digital learning offers them, and what are the objectives, among alternative aspects.

Learners Motivation school rooms that are run within the style of a seminar and discussion have the advantage of answerableness and superintendence. One of all the common challenges in digital Learning is that, left to their own devices, staff might not explore the course material. Even worse, staff could resent victimizing their own time to try to to work, instead of enjoying the "vacation" from their everyday responsibilities afforded by an associate degree in-person seminar. Therefore, it becomes rather vital and a giant challenge. However, will we have a tendency to keep our students impelled enough to complete the course and furthermore, will we have a tendency to build them to get pleasure from the training experience? To beat this challenge sure life may be taken Incentives: enfranchisement of the courses and certification offers staff a tangible goal that edges themselves additionally because the leader. a lot of loosely, any job coaching that may cause career advancement or resume building is effective to today's worker. Appealing: one in all the simplest strategies to encourage your participants or audience is to create positivity. The Digital Learning courses you develop are visual and really appealing to the attention. Take a glance at this infographic, wherever you'll be able to get concepts on the way to build eLearning a lot of engaging. \

### **2.12 Technological Skills of Learners**

The Digital Learning implementation is dependent upon the PC accomplishment of the workers victimizing it. The power of the learner's to access and act with the course material dictates the utility he can get out of the program.

**2.13 To overcome this resistance sure measures may be taken:**

**Adaptability:**

This eLearning challenge may be mitigated by scaling the complexness of the system to the wants of the course and of the workers. Once the content being schooled is fairly basic, an easy interface may be wont to impart it; the complexity may be scaled up because the course material and technological experience of the learner demands. facilitate once required: once students run into issues whereas victimization the Digital Learning courses, technical support services ought to be there, like Live chats, auto-help buttons, emails, discussion boards. accessibility of digital learning facilitators offered will build them feel they're supported within the programme.

Evaluating resultiveness yet one more vital challenge of Digital Learning is that the task of deciding whether or not the course has the supposed effect. within the absence of pop quizzes and report cards, however will associate degree leaders tell whether or not the eLearning implementation is achieving its goals? Resolution Assessing the result's vital, it's essential to understand what number staff ar victimization the Digital Learning program, however long they pay on that, and the way several complete the course, however on top of this it's a lot of vital to understand the performance reflects their newly-acquired data. If they show the abilities and knowledge gleaned from the digital Learning program in their work, then the Digital Learning implementation has been effective.

**2.14 Key Outcomes of Digital learning**

- E-Learning ought to be a lot centered on data creation instead of simply on data acquisition. Data is an integral part of this century. Developing collective cultural practices, physical learning is vital as learning takes place between individuals and their cultural surroundings.
- Along with emotional and psychological feature development, well-being and Social and Emotional Learning (SEL) are essential for the event of the scholars.
- Instead of computer-supported learning, it might be sensible to speak concerning new styles of Socio-Digital Participation (SDP).
- This includes media accomplishment, like mistreatment of social media and search engines.
- Constant reforms in colleges and teacher education is crucial for development.
- The schools don't seem to be following the vital developments of society.
- There is no proof that learning designs or sorts would be informative in coming up with learning environments.
- Instead, it might be sensible to watch users' psychological feature profiles or study orientations. Meaning and interesting learning ways are sensible, that support collaboration and self-regulation.

**2.15 Conclusion**

To sum up, it will be aforesaid that digital education is the future for India and it's here to remain and can take the country to a replacement pedestal of socio-economic growth and prosperity. Thus, it's imperative to grasp and be sensitive towards digital inequality. Careful designing measures can be adopted to handle these inequities. Closing the gap seems tough thanks to its multifaceted nature, however every step we tend to take can bring the United States of America nearer to attaining just digital education for all.

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