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# DIGITIZATION OF EDUCATION AND ITS IMPACT ON THE ACADEMIC ECOSYSTEM: A REVIEW

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# ABSTRACT

Every person has a fundamental need for education, and the current trend is towards adoption of digital education. The nature and scope of legacy of education have changed as a result of evolution in technologies, prompting educational systems throughout the world to implement ICT integration plans and regulations. One of the prominent examples of this new change is the way conventional classroom have changed to digital classroom. The classroom now looks very different from how it did twenty or even ten years ago due to the way that technology has transformed lives as we know. With the use of innovative educational technologies, teachers and students have been able to collaborate in real time across academic disciplines. Perhaps one of the biggest influences on how learners now receive their education is technology. Technology integration is the combination of educational technology, tools, curricula, and content that advances both teaching and learning strategies and promotes the goal of improving student learning outcomes. Even if technology integration benefits instructors, students, and the larger education ecosystem, it also has challenges associated with it. The fundamental features of technology, how it affects society, and how individuals may and do influence its evolution are poorly understood by both adults and children. Even many who regularly utilize technology are not entirely aware of it.ICT integration seeks to improve and raise the level of accessibility, quality, and costeffectiveness of the education provided to students, but it also refers to the benefits of networking learning communities to address the issues of current globalization.

Keywords: Technology, Evolution, Tools, Digital, Education, Future.

#### Introduction

The rapid advancement of technology has brought about profound changes in numerous aspects of society, and education is no exception. Technology has become an integral part of our daily lives, and its influence on the field of education has been particularly noticeable. The onset of the global pandemic has only accelerated the adoption of educational technology, resulting in a surge of edtech companies entering the market and a greater emphasis on personalized learning experiences. Traditional educational settings are facing the imperative to adapt to these transformative changes driven by cutting-edge technologies such as artificial intelligence (AI), virtual reality (VR), cloud computing, and big data. Among these innovations, virtual environments are poised to play a pivotal role in the future of education. It is crucial to create dynamic and motivating learning environments that cater to all users and support the efforts of established educational institutions to modernize their instructional models and practices.

The versatility and disruptive potential of technological advancements have opened up new possibilities for enhancing teaching and learning. Smart devices, the Internet of Things (IoT), AI,

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## 2 International Journal of Education, Modern Management, Applied Science & Social Science (IJEMMASSS) - October - December, 2023

augmented reality (AR), VR, and software applications have revolutionized education systems worldwide. Schools and educational institutions have recognized the importance of integrating information and communication technology (ICT) into their teaching methodologies and have increased their investments accordingly. ICT integration in education refers to the incorporation of technology into the teaching and learning process, particularly in classrooms. This approach recognizes that children today are tech-savvy and tend to learn more effectively in technology-rich environments. Technology offers significant pedagogical benefits, ensuring successful learning with the support of ICT tools and components. It's worth noting that technology-based tools aid learning in various subject areas, from mathematics and science to languages, arts, and other essential fields. The digital transformation has fundamentally shifted the educational landscape. Students' lives have become more convenient with the advent of educational technology. Instead of relying solely on traditional pen-and-paper methods, students now create presentations and projects using a variety of software and tools. Technology has also improved the teacher-student relationship, with educators integrating technology into lesson plans to enhance subject-matter knowledge and classroom engagement.

Importantly, technology and computers are viewed as complements rather than replacements for effective teaching. ICT integration in education extends learning beyond the physical classroom, facilitating remote learning when physical distances separate teachers and students. It encompasses a wide range of engaging methods, including educational videos, simulations, data storage, database utilization, mind-mapping, guided discovery, brainstorming, music, and internet resources, all of which enrich and deepen the learning experience. Technology empowers teachers to create compelling lesson plans that encourage active student participation. Moreover, digital technologies in education aim to boost productivity and efficiency while reducing waste and pollution. The impact of these technologies on the educational system is profound, shaping the way students learn, interact with content, and prepare for the challenges of a technology-driven world.

The integration of technology into education is not just a trend; it's a transformative force that has reshaped the learning landscape. It empowers both educators and students to adapt and thrive in an increasingly digital world, providing new avenues for exploration, engagement, and innovation in the realm of education.

#### The Age of Internet & Digital Education

In India today, the profound impact of digitalization on education is nothing short of revolutionary, touching virtually every facet of the learning landscape. From the foundational levels of primary education to the pinnacle of higher learning and advanced research, the digital wave is sweeping through, leaving no corner untouched. Furthermore, its transformative influence extends beyond education, reaching into various other industries such as banking, finance, insurance, healthcare, and transportation. Dr. Satish Marathe underscores the anticipations of this digital transformation, emphasizing the convenience and customer-centric nature it promises.

One noteworthy aspect of this digital evolution is the seamless integration of automation features into various systems. These features, devoid of human involvement, are poised to enhance precision and repeatability across sectors. For example, in the banking industry, automated processes for account management and transactions ensure accuracy and efficiency, offering customers a seamless experience. In healthcare, digitalization streamlines patient records, diagnoses, and treatment plans, making healthcare services more accessible and efficient. Looking specifically at higher education, the landscape is poised for significant change. Technological advancements are no longer viewed in isolation but are seen as part of a broader context. This change is driven by a confluence of factors, as highlighted by Mohammad Akour. The evolving requirements of industries demand graduates with updated skills and competencies. Society itself is undergoing a digital transformation, reshaping the way we live, work, and learn. New developments in didactics and learning theories are fostering innovative teaching methods and modes of instruction. Digital technologies are laying the groundwork for novel learning environments and personalized instruction.

Simultaneously, a thriving ecosystem of forward-thinking ed-tech startups is emerging, offering cutting-edge digital solutions to educational institutions. This not only raises the bar for the nation's digital infrastructure but also extends access to cutting-edge educational technology to a wider audience. Additionally, language barriers are dissolving as more regional language learning materials become readily available online, facilitating inclusive learning for all. One crucial aspect of this digital revolution in education is the role of digital tools, encompassing programs, websites, applications, and internet resources. These tools empower students to develop critical skills such as problem-solving, independent

Dr. Ajanta Nayak & Ms. Farheen Parveen: Digitization of Education and its Impact on.....

thinking, and process understanding. These skills are not only essential for academic success but also vital for navigating an uncertain and dynamic future where technology proficiency is paramount.

Furthermore, the use of digital tools enhances the classroom environment, making the teachinglearning process more engaging and interactive. Educational institutions gain the flexibility to tailor their curricula to the unique needs of each student, fostering personalized learning experiences. With the internet's global reach and the proliferation of smart devices, we are ushering in a new era where education knows no bounds. The onus is now on educational technologists and instructional designers to harness the potential of modern digital technology to democratize education and make it effective and accessible to everyone, regardless of location or background.

Through e-learning and mobile learning programs, students and teachers now have access to an expansive library of educational content. However, to ensure that these new teaching tools are wielded effectively, a new generation of educators is required. These educators recognize the value of interpersonal interaction in the classroom and are adept at leveraging technology to enhance the learning experience. This shift towards technology-integrated pedagogy opens up exciting career prospects in education, bridging the gap between tradition and innovation. As we move forward, students are actively acquiring the knowledge and skills needed to harness emerging instructional technologies. The increasing internet capabilities and network capacity in the years to come will simplify the integration of cutting-edge technology into classrooms. This, in turn, will captivate the attention of tech-savvy young minds, as they are already well-acquainted with electronic devices. Introducing technology in the classroom will not only pique their interest but also foster prolonged engagement with educational content.

The digital revolution in Indian education is a multifaceted transformation that promises to redefine learning and its applications across industries. With the right approach and educators who can bridge the gap between technology and pedagogy, this revolution has the potential to shape a brighter, more accessible, and dynamic future for education in India.

# Legacy Education and it's Challenges

India's rich educational heritage can be traced back to ancient times, with institutions like Takshashila and Nalanda standing as iconic symbols of advanced learning. These historic colleges made substantial contributions to the Indus Valley civilization, fostering a culture of knowledge dissemination. Education has always held a pivotal role in Indian society, dating back to the Vedic culture, where Gurukuls and Ashrams were the early forms of education. The ultimate goal then was to attain "Moksha" or enlightenment, emphasizing the spiritual dimension of learning (Naman Wadhwa et al., 2020). During this era, the traditional educational system relied on Gurus imparting knowledge to their pupils in a one-way manner, typically conducted within the confines of an on-campus setting. The Vedas and Hindu scriptures served as the primary sources of education, covering a diverse range of subjects such as Vedic recitation, sacrificial laws, grammar, reasoning, sciences, and vocational skills. However, Upasana (2014) argues that this traditional system, while rooted in history, may struggle to endure in our technologically advanced world, where innovation continually replaces the old.

Throughout history, India's education sector has evolved through various economic stages. From the open garden Guru-Shishya style of teaching to closed classrooms with LCD touch-screen projectors, the methods of education have undergone significant transformations. Presentations using digital tools and even instant communication via WhatsApp have become commonplace in the modern educational landscape (Nivedita Jha et al., 2016).

Nonetheless, it is widely acknowledged that India's current educational system faces challenges in meeting the demands of both contemporary society and the future. Traditional programs and curricula may struggle to keep pace with the rapid advancements in technology and the evolving job market. Many skills, including arts, hobbies, and soft skills, often fall outside the scope of conventional education. This is where eLearning emerges as a crucial solution, offering flexibility and adaptability to address the shortcomings of traditional education (V.B. Hans and S.J. Crasta). Dr. R. N. Nadar (2018) emphasizes the foundational role of education in a nation's growth, suggesting that an ineffective educational system can hinder a country's competitiveness in the global marketplace. The perceived lack of quality education is underscored by the absence of Indian institutions in the top 100 universities list published by "Times Higher Education World Reputation Rankings."

The traditional classroom setting, characterized by lectures, chalkboards, and physical presence, has limitations in terms of real-time learning, quick assessments, and student engagement. In

4 International Journal of Education, Modern Management, Applied Science & Social Science (IJEMMASSS) - October - December, 2023

contrast, digital education offers a virtual environment accessible over the internet, providing students with greater flexibility in terms of when and how they access course materials and complete assignments. Moreover, digital education can be more cost-effective as it eliminates expenses like transportation, accommodation, and food plans associated with traditional learning. Additionally, modern technology enhances the learning experience by offering a wide range of multimedia resources and interactive platforms, making education more engaging and enjoyable for students. For instance, in digital classrooms, students can access a wealth of information from across the world through integrated digital platforms, creating an information-rich learning experience. This not only enriches their understanding but also fosters creativity.

The transformation of India's education system from its historical roots to a digital-age model reflects the adaptability and evolution of education in response to societal needs and technological advancements. The integration of technology into education is helping bridge gaps, enhance accessibility, and make learning a more engaging and dynamic process for the younger generation. This evolution, while acknowledging the value of tradition, embraces the opportunities offered by the digital era.

#### **Methods of Digital Education**

- Adaptive Learning: Artificial intelligence-controlled and directed learning is known as adaptive learning. These are based on a student's response to questions, adaptive learning determines that student's degree of comprehension as well as his strengths and shortcomings. The knowledge is then delivered in a methodical way in a way that is simple for the pupils to grasp.
- **Badging and Gamification:** These are motivated learning strategy where students are given digital badges for her academic success in a sort of gamification. Students are encouraged to learn through the reward of group badges.
- **E-Textbook:** An updated and contemporary version of conventional textbooks is an e-textbook. E-textbooks will soon overtake traditional textbooks, according to a number of research studies conducted by universities and other educational organizations. Because they are less expensive, easier to use and handle, and extremely simple to update to keep up with changing situation.
- **Blended Learning:** Combining the finest elements of conventional and online learning is known as blended learning. Both in-person and online classes are used to train students in this sort of scenario.
- **Online Learning:** With the use of the Internet, online learning enables learners to improve their education. A learner can access on-demand lectures in online learning, where most classes are pre-recorded.
- Interactive Whiteboards: With interactive whiteboards, images from a computer may be projected using a digital projector onto a sizable board that is fixed to the wall. It allows users to interact with the information on the board using either their fingertips or a pen.
- **Software Application:** To aid students in their learning process, several apps are available. These programs are created to run on smartphones, tablets, or PCs.

# **Digital Education- The Game Changer**

Technology has brought about a transformative impact on education, offering numerous advantages to both students and educators. Here are some key advantages of technology in education, along with examples illustrating each point:

- Enhanced Access to Information: Technology provides students with unprecedented access to a wealth of information, making it easier to explore various subjects. For example, online databases and digital libraries allow students to access academic journals, research papers, and educational resources from around the world. Platforms like Google Scholar enable students to search for scholarly articles and publications effortlessly.
- Interactive Learning: Technology fosters interactive and engaging learning experiences. Interactive simulations and virtual labs, such as PhET Interactive Simulations for science and engineering or virtual dissection tools for biology, allow students to explore complex concepts in a hands-on and safe virtual environment.

Dr. Ajanta Nayak & Ms. Farheen Parveen: Digitization of Education and its Impact on.....

- **Personalized Learning:** Adaptive learning software and platforms use data analytics to tailor educational content to individual students' needs and learning styles. For instance, Khan Academy adapts its math lessons based on a student's progress, providing targeted exercises and feedback.
- Accessibility and Inclusivity: Technology helps make education more accessible to individuals with disabilities. Screen readers, voice recognition software, and captioning tools enable students with visual or hearing impairments to participate fully in online courses. One example is the screen reader software JAWS (Job Access With Speech).
- **Collaborative Learning:** Technology facilitates collaboration among students, even when they are in different locations. Platforms like Google Workspace for Education or Microsoft Teams allow students to collaborate on projects in real time, share documents, and communicate effectively.
- Efficient Assessment: Online assessment tools automate grading and provide instant feedback to students. Educators can use learning management systems (LMS) like Moodle or Canvas to create quizzes and assignments that can be automatically scored, freeing up time for more personalized instruction.
- Global Learning Communities: Technology connects students and educators across the globe, fostering international collaboration and exposure to diverse perspectives. Platforms like eTwinning bring together schools from different countries for collaborative projects, promoting global awareness.
- **Cost Savings:** Digital textbooks and open educational resources (OER) reduce the cost of educational materials for students. For example, Project Gutenberg offers over 60,000 free eBooks, making classic literature accessible to all.
- Real-World Application: Technology allows students to apply what they learn to real-world scenarios. In coding and computer science education, platforms like Scratch or Codecademy provide interactive lessons and challenges, allowing students to develop practical programming skills.
- Flexibility and Convenience: Online learning and educational apps offer flexibility in terms of when and where students can learn. Massive Open Online Courses (MOOCs) like Coursera or edX enable learners to access courses from top universities worldwide, accommodating busy schedules.
- **Data-Driven Decision-Making:** Educators can use data analytics to track student progress, identify areas of improvement, and adjust teaching methods accordingly. Learning analytics tools like Tableau or Blackboard Analytics help institutions make informed decisions about curriculum and student support.
- **Career Readiness:** Technology equips students with digital literacy and skills needed in the modern workforce. Learning software like Microsoft Office Suite or Adobe Creative Cloud prepares students for tasks ranging from document creation to graphic design.

In summary, technology has revolutionized education by expanding access to knowledge, promoting engagement, personalizing learning experiences, and preparing students for the demands of the 21st century. These advantages, coupled with the wide array of available educational technology tools, are shaping the future of education in exciting and innovative ways.

# Limitations

- **Budget Restriction:** Budget cuts and restrictions are by far the biggest barrier limiting teachers' and administrators' efforts to equip students with education technology, and they represent a significant challenge for those who support the use of tech in the classroom. Budget restrictions are particularly difficult to overcome because high-quality educational technology is not cheap. Lack of money in financially troubled schools may make it very difficult to implement technology in the classroom.
- Absence of Professional Training: Every day, more cutting-edge and novel educational technology are developed. In addition to learning how to utilize each new tool themselves to the fullest, teachers must also be able to instruct their students in its use. The educational experience of any child is unlikely to be improved by introducing classes to a flashy new tool

6 International Journal of Education, Modern Management, Applied Science & Social Science (IJEMMASSS) - October - December, 2023

that neither teachers nor students can utilize, and forcing busy teachers to learn how to use a new tool can be time-consuming and irritating. Although it could cost money and time to professionally train instructors, faculty, and staff, it is essential if learners are to benefit from technology in the way that is expected of them.

- **Inadequate Network Infrastructure:** If the institution does not have the necessary network infrastructure, gifting a classroom full of children with a set of laptops or notebooks would not have any positive benefits. Fast, high-quality WiFi is necessary for an effective network infrastructure, as is data privacy and security, access to online resources, and many other things. As it is essential for the successful and responsible continuous use of technology in education, designing, constructing, and sustaining a solid network infrastructure must be done with considerable care and consideration.
- Reluctant to Change: Many instructors have shown apprehension toward change and reluctance to use educational technology. However, research has indicated that this resistance is not due to instructors' disliking of technology. Instead, it's partially a result of instructors' perceptions that mastering a new teaching instrument is a dangerous endeavour for which they lack the necessary training. It is also partially because their school leaders do not put forward a united front by emphasizing which certain technologies can benefit their learners. While overcoming this aversion to change can be challenging, working with teachers to encourage their adoption of new educational technologies can assist increase their likelihood of doing so. Many instructors, especially those who work with older age groups, are not always convinced of the advantages of utilizing technology in the classroom. Additionally, they try to avoid using technology as much as possible and feel less in charge of their classroom. In order to successfully integrate technology into the classroom, instructors' attitudes and beliefs are crucial.
- Systems to Use Technology in Curriculum are not in Place: Giving instructors access to tablets and smartboards could increase their familiarity with educational technology, but many teachers haven not considered how to integrate technology into their curricula in the most effective way. Lack of support for teachers in utilizing education technology in their particular classrooms is a significant barrier to the adoption of new technologies.
- Device and Software Reliability Issues: Inadequate hardware and software can also make up for a weak infrastructure, creating significant obstacles to the use of technology in education. An unreliable device might be as simple as a malfunctioning notebook or it could be a problem that prevents students from accessing tests or logging in to their accounts at school. Although technology in education may be a powerful instrument, for it to remain an effective alternative in the future, hardware and software must be consistent and dependable.
- Unpercieved need for technology- The fact that many administrators just are not willing to accept it right away is another difficulty for technology in education. Although the causes of this vary, they are probably related to budgetary constraints and the fact that the advantages of educational technology are still being better understood. This makes it difficult to identify particular places where this technology can assist improve test scores or other indicators. However, it is probable that administrators' reluctance to use technology will soon become a thing of the past as distance learning continues to grow and education technology becomes more widely used.
- Access a Primary Difficulty: Access has been one of the main obstacles the educational industry has faced in its move to a tech-driven environment. This is particularly valid for a growing nation like India. Lack of regular and dependable access to hardware devices, software, and an internet connection has been a major obstacle to the incorporation of technology in the classroom.
- Lack of Ongoing Support for Adjusting to the Requirements of a Tech-driven Classroom: Lack of a strong support network for educators and learners who want to shift toward techdriven teaching-learning architecture has been another major obstacle. Teachers would need support from qualified specialists over a considerable amount of time in order to successfully transition to digital and online classroom teaching. In reality, only after teachers have mastered the fundamentals of computer and internet usage can they effectively combine digital tools and mediums with course material, lesson plans, and delivery methods.

Dr. Ajanta Nayak & Ms. Farheen Parveen: Digitization of Education and its Impact on.....

## **Conclusion- Our Future is our Preparedness**

The world of technology has witnessed a profound evolution in recent years, and this transformation shows no signs of slowing down. Digitalization is a complex and ongoing process that demands significant changes and a readiness for the digital age. To make this transition successful, all stakeholders within the educational ecosystem must share a unified vision of how Information and Communication Technologies (ICTs) should be integrated into education and collaborate to bring about these changes. In the modern educational landscape, the use of educational technology by teachers has become a necessity rather than an option. Education is evolving into a tool that prepares the upcoming generation for a globalized and interconnected world. More and more students are seeking to expand their skill sets to advance their careers, emphasizing the growing demand for flexible degrees and competency-based vocational training programs. Despite technological advancements, teachers continue to play a central role in knowledge dissemination (Deependra Kumar Jha, 2020).

To engage students effectively in this digital age, teachers must harness the latest technologies available. Innovative teaching methods and the introduction of fresh concepts are vital to pique students' interest in their learning journey. With technology becoming increasingly accessible and integrated into every facet of our lives, we now expect our educational experiences to be technologically advanced. Educational technology has become indispensable for today's students, enabling them to learn at an accelerated pace and adapt their learning strategies to keep up with the ever-evolving tech landscape. To ensure the successful implementation of ICT and digitalization in education, schools must assemble a technology planning team comprising administrators, teachers, technology coordinators, students, parents, and community representatives. This diverse group collaboratively identifies educational goals for students and determines the types of technology that will support these goals (Rastogi, H., 2019).

The integration of technology into the classroom can significantly enhance the learning environment. Therefore, both teachers and students must adapt their teaching and learning methods to keep pace with the rapid technological advancements. The initial stage of the implementation process is critical for realizing the full potential of ICT. Proper implementation and support from top management are the cornerstones of technology-based teaching and learning preparations. When ICT is integrated effectively into schools, it benefits both teachers and students alike. This approach leads to a more efficient and effective educational system, which, in turn, enhances the nation's global standing and produces a workforce better equipped for the challenges of the future.

In conclusion, the ongoing digital transformation of education is a journey that requires collaboration, vision, and adaptability from all stakeholders. Embracing educational technology is not just an option but a necessity to prepare students for a rapidly changing world. Proper planning and support are essential to ensure the success of digitalization efforts and improve the overall effectiveness of the educational system.

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