

Technology and Disability: Is Technology a Boon for Disabled Person?

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Abstract

The main perception of this paper is to regulate the influence of technology in the life of disabled children. Technology enhances to get rid of disability and how expected innovative technology creates or improves disability. Technology is more significant for disabled person than any other since they can complete several works which they, in general, cannot due to their physical deficiency which might be in the formula of incapacity to move, hear, see, etc. The key role of technology in primary discovery, restriction, and restoration is indisputable and there is no hesitation that technology aids disabled person in fast improved independence, movement and ambulation, access to employment, better-quality their worth of life as an entire. As technology increasingly develops an essential portion of our individual and applied lives, our practice of them exchanges former to being revealed a major life achievement in which people must encompass to be fully effective partakers in current society. Technology has an unpredictable supremacy to both support and delay people with disabilities. Once their elementary need for education will be contented then they should be proficient in technology in such a way that their life will be allowed from several privileges. After as long as planning, conditions for the use of technology should also be indicated to disabled person so that they will be able to extend what they have informed. Technology is reflected as the lessons of adaptive and assistive devices propose a vital role in the life of a person with disabilities. The modern period is the phase of innovative technology. The world of today is very enthusiastic. The life of man in the embryonic age was altogether different from his life in the Sputnik era. There have been marvelous an alteration in the lifestyle of human beings which may be accredited to the involvement of technology has stretched the boundaries of our knowledge in several means and guidelines. Technology is imitated to be a blessing to the whole people and especially disabled person in

their daily lives. The writer made an effort in this paper to discover the means and purpose on the status of technology improved and boon the normal lives of person with disabilities in the modern society.

Keywords: Technology, Children with Disabilities, Benefits, Empowerment.

Introduction

The twenty-first century has motivated about a digital mode of life that abodes a new outlook of vision on education (Bitner & Bitner, 2002). Over a billion people worldwide, around 15 percent of the world's populace, have disabilities and 80 percentages of them living in developing countries (WHO and World Bank 2011). As per Census 2016, in India, out of the 121 Crore population, about 2.68 Crore individuals are 'disabled' which is 2.21 percent of the total population (Devendar, Panchanan & Sunitha, 2016). Persons can experience diverse kinds of disabilities comprising visual, hearing, speech, mobility, rational, and psychosocial. Persons also experience the beginning of disabilities as they age. Almost 12 percentage of the world's populace is above the age of 60; that number will be over 20 percentage by 2050 (UN Department of Social and Economic Affairs 2013). Technology for disabled persons has ended with several signs of progress over the latest years. Emergent technologies support the disabled person with considerable enhancement not only as physical independence but also as the required skills to develop a significant part of the society and economy. People with disabilities perform and extensive primary and secondary education at lesser grades than persons without disabilities (UNICEF 2013). Disabled children though need choice in what way they create advocates with the world. Access to modern technology, however, viewed as progressively essential and was not reflected in the highest primacy for the disabled investigation partakers. Most measured the exclusion of further traditional disabling obstacles to have superior insistence. This method concern among many that technology might be carried as a cost-cutting exercise, decreasing the need to make more expressive social changes, and efficiently keep apart from them in their own families. "Students today are developing up in a sphere where technology and digital means is an essential portion of their daily lives" (Wheeler, 2014). With this in consideration, technology development guides a technique to bring into a track with classroom teaching within what way students flourish their day-to-day lives. The literature is starting to recommend that technology suggests many profits to improving education, together with the

prospective to upset student success and enthusiasm (Campigotto, McEwen, & Demmans Epp, 2013; Heafner, 2004). Several advanced structures within many technology products consent teachers to modify, improve, and support a student's learning. The marvelous flexibility of technology facilitates teachers to distinguish their lessons in ways that were not potential when limited to traditional classroom means (Meyer & Rose, 2005). This study outline on technology mixture as the preparation of relating which tools and schemes to complete to enable students in managing their instructional goals (Dell, Newton, & Petroff, 2008). The technologies which are presently available and those which are approximately to come, having the potential to convert the complete educational structure, According to this plan, skillful incorporation of any technology demands an intended method to its educational use. It also distinguishes that technologies have their tendencies, capacities, restraints, and affordances. Therefore, technology gives educators with the capability to maintain a varied range of learners, while enhancing student accomplishment and enthusiasm. Also, this effort accepts that incorporating technology is the following step after technology has come to be available and accessible. Hence, technology incorporation is assumed as a method by which educators use technology decisively to improve teaching and learning.

Technology and Disability

The disabilities can be well-defined as a physical or the mental disorder which excludes an individual using their body; it is whether in ease incompletely or entirely in execution daily tasks (Todaro, A.J., 2005). For the last limited decades, the emphasis of disability has erased from individual impairment to social progress and skills. Thus, disability may be a complex phenomenon, replicating an interface between portions of a person's body and structures of the society in which he or she lives. With this outlook, persons with disabilities are realized as being inadequate in carrying out their repetitive because of a compound set of relating difficulties concerning the person and his atmosphere (Chandrashekar, Kumar, Prashanth & Kasthuri, 2010). Disabled person was unpleasant by a person with a deficiency who facing disability. Disability was a damaging outcome of relatives that take place between a person's social atmosphere and also his or her deficiency. For persons with disabilities, who formerly seeming important damages to social and economic taking measures, access to technologies is usually serious. One

of the resources in which access to learning worth and teaching considerably can be supported is through the use of steadfast technologies frequently called like. AT, AAC, ICT and UDL etc. The usage of technology in the enablement of persons with disabilities is not new. Fixated assistive and adaptive technologies such as screen reading software, magnification devices, AAC devices that aid persons with difficulties in verbal communications, and telecommunication convey devices have been used to encourage independence and involvement. Yet, persons with disabilities in low and medium-income nations surface important encounters in obtaining assistive devices such as the rate and readiness of unrelated, particular tools (WHO and World Bank 2011). The price of assistive technologies can be an obstacle to their usage in supporting the self-determining living, education, and employment of persons with disabilities in low and medium-income nations that have inferior state funding to enable the achievement of assistive technology (Budde, P, 2013). Educators are great a uniformity of ICT to improve learning for students with disabilities composed with electrical whiteboards, recording and uploading lectures, task relationship and grouping, retaining tools and supports, (O'Connell, Freed, and Rothberg 2010). ICT is being used to propose renowned guidelines and learning by adjusting relaxed and procedure to encounter a student's willingness level (Bender 2012). ICT modifies the instructional structure by forming educators as initiators, students as a dynamic learners & learning as a thrilled learning. ICT practice in schools can support students with disabilities. They empower students to communicate, partake in instructions, and learn further efficiently. In the current lesson, there is a narrative of technologies, which empowers the disabled student to accomplish his educational actions more potently.

In this current age, India is undertaking a technology boom which sets as an approval for disabled persons. Now, technology has dropped the hindrance and problems of disabled persons in several techniques and it is accurate to say that technology has been a game-changer for persons with disabilities (Myriam, 2017). Some special educators and AT experts that effort with students with disabilities to categorize a perverse defense between assistive outcomes and consistent instructional tools and software intended (Bocconi and Ott, n.d.; Marino 2009; O'Connell, Freed, and Rothberg 2010; Puckett 2011). AT settled through have made it relaxed for persons with disabilities to exchange and interrelate with the world in new means that may overawe their problems and experiments (Myriam, 2017). The effective incorporation of

technology into classrooms rests a goal for many educators. Through diverse technological outfits being often presented to the instructional arena, new stresses and potentials are forced on educators (Johannesen & Eide, 2000). Then, the signs of progress in technology are requiring by themselves to promise the gaps in the worthwhile of persons with disabilities. The adaptation, operationalization, and application of ICT for comprehensive development residues reliant on other issues within the environment (Samant, Matter, and Harniss 2012). Several features relate to the effective incorporation of technology into programs and education. Particular concerns include financing, the overpowering decision of which tools to assume given the excess of technologies accessible today, and educator exercise in the usage and incorporation of technology. Technology is receiving the courtesy of families, groups, policymakers, and experts due to its prospective for enlightening the lives of persons with disabilities. From computers to communiqué strategies in the sphere of technology proposes many children and young people with disabilities the tools essential to be more effective in school, at labor, and at completing independence in everyday living. Certainly, occasions which were incredible then years ago are now suitable an available truth to some person with disabilities. With the facility of diverse technology, innovative technologies are fostering new hopes in the life of persons with disabilities in modern society.

Role of Educators in Facilitating Technology in Classrooms

Educator is the key person in facilitating learners to ensure access to technology competences. The educator should have needed proficiency, content, and learning actions organization and attempt to adjust his/her class from a stagnant to a vibrant position in learner-focused atmospheres so that learners be capable to interconnect with others, both in their classes and virtual classes around the sphere. In this circumstance, the teacher will partake in the knowledge shared by others and his/her role as one of several knowledge sources will variation. Through enabling learning procedures and appropriate comments, the teacher offers good instruction outcomes. She /he reinforce learners' essential inner inspiration by generating a positive attitude towards classes and providing expressive and divine manner in the classroom. An educator has various concerns and guidance in planning learning practices for students, and the suitable usage of technology is but one of those attentions. Just as educators keep up to date with program

advances, new instructional strategies, and progresses in the art and science of teaching exercise, they hold onto time with the technological tools that are accessible to them. This resource that occasionally carrying out tests and tests and-error is just as significant as involvement in what effects teachers' lesson strategies. The role and capability of educators are critical because educators are at the front track of planning and providing the learning practice. It has been well discussed that just creating technology offered in schools does not mean that educators will make usage of the technology, nor will it essentially be used efficiently (Cuban, 2003). Technology also has an important outcome on the worth of the work involved for classroom educators. While educators are normally positive about technology, fresher educators are even more eager. Further of them are pleased with their overall knowledge of technology and realize it as influencing their employment efficiency. Studies display that when educators use technology they sense they are capable to do their Employment more successfully. Moreover, while most educators approve that technology is important to teaching and learning, educators in urban and rural/small town schools are more possible to agree intensely about the worth of technology for them and their learners (NEA-AFT technology survey). The significance of technology in urban and rural schools reposes frequently with its practicality as a pleasing, assistive-learning tool, mainly meanwhile students in lesser income urban and rural spaces have less access to technology outdoor of school.

Educators are one of the mainproviders to the achievement of technology incorporation for learning and education (Wang & Reeves, 2003). . In precise, educators of students with special needs are expected and required to create competence with using and including AT into their students' instructional program design when necessary (Dell, Newton, & Petroff, 2008). This is also strengthened by the values of the Board for Special Children, which states that entry-level special education educators of students with special needs must be capable in executing particular technologies to sustain students with special needs (CEC, 1997). Meanwhile educators hold the vital responsibility and guidance of a classroom, their talent and attitude regulates the efficiency of technology incorporation into the program. Still, the role of the educator in this procedure is an often over-looked determining feature (Bitner & Bitner, 2002). In order for technology to be used expressively to maintain and improve student learning, their outlooks must be reflected (Bitner & Bitner, 2002; Wang & Reeves, 2003). A study by Kim et al., 2013 examined how

educator opinions were connected to technology incorporation performs. All members were engaged from normal classrooms in open Basic schools. The outcomes of this study showed that educator opinions, among other issues, partial their technology incorporation performs. These demands for closer relationship between educational investigators, technology designers, and educators to confirm those educators' outlooks on technology incorporation are no lengthier unnoticed. Besides, outlooks of special educators in specific are apart that has been fairly under examined. Bitner and Bitner (2002) defined eight areas that should be reflected in order for fruitful technology incorporation. Among these, the environment, or school culture, should welcome educators to investigate without the fear of letdown. In addition, perpetual support must be providing and reassurance to undertake the promotion of change, encouraging educators to emphasis on the potentials that technology can offers to learners in the classrooms.

The Role of Technology in Educating Person with Disabilities

The experience in education that had the highest influence on the 21st-century instruction in technology. The word "Technology" denotes to progresses in the techniques and outfits to resolve difficulties or accomplish a target. The Innovative technologies permit us to attempt things in physical and virtual classrooms that were not thinkable earlier. It's not only about the new methods for instruction and measuring. Technology has assisted educators to take the role of an initiator and counselor reassuring students to access the existing knowledge and controller them to use it in accomplishing their life targets. Technology has reformed intensely over recent periods. The growing diversity and availability of technology has prolonged the toolbox and the occasions educators have to use technology. Computer devices are more influential and come in diverse forms, from those that be seated on our desks to those that sit in the palm of our hands. The internet associates those devices and joins students to each other in the classroom, over the school, and around the world. Technological devices and set-ups have altered our schools and classrooms. Learning with technology has become necessary in today's schools. International, governments, instruction structures, investigators, school leaders, educators, and parents reflect technology to be a critical portion of a child's schooling. The significant role that technology shows in instruction offers educators the occasion to strategy animated learning involvements

that implant technology. This is not a new part for educators; we have continuously reflected the tools and assets that can best sustain learning actions for learners. Yet, progresses and availability of technologies have set the potentials appear practically never-ending. Technological innovation completed the past two decades has ineradicably changed today's teaching background. Together, these technologies suggest the prospective to open doors and construct bridges by increasing access to features of education, enabling communication between educators, students, and families, and lessening resistances through an extensive range of instructional settings from early childhood through adulthood.

There is an evolving wide-ranging consent about the world about the welfares that can be conveyed to education structure through the proper use of progressing ICTs. The variety of potential profits infused all parts of action in which understanding and communication show a vibrant role. It is elaborate from enhanced teaching and learning procedures to recovered student results, better student commitment, and unified communication with educators and parents. Nowadays there is an important gap between understanding and skills students study in school and the understanding and skills that personnel need in workshops and groups. Employers report that they need learners who are experts, having good ethical and work morals, can cooperatively work in groups, have critical thinking and problem-solving capability, can lead a group of people, and are experts in vocal and written communication. The necessity to retain pace with society and get ready students for their roles in society is just two causes to use technology in education. Educators and investigators opinion to the prospective of technology to increase the incentive and commitment of learners, offer for diverse learning styles, and enhance learning results. When we discourse about technology in teaching and learning, the word incorporation is repeatedly used. The notion of incorporating technology into the program came about over a concern that we may have been teaching about and teaching how to use technology but not addressing how students can relate technology linked knowledge and skills. To discourse this difficult, there was an exchange to incorporate technology into each key learning area.

Approaches to using Edtech in teaching and learning have been establish to be reinforced by signs of progress of technology usage in education, conceptions of teaching and learning and insights of the technological teaching setting (Kim et al., 2013; Kirkwood & Price, 2012; Song &

Looi, 2012). Therefore how teachers conceptualize Edtech and the role of instruction has an important influence on how they apply technology in their education preparation (Kirkwood & Price, 2012; Price & Kirkwood, 2014). The society at enormous is often ignorant about the potential of children with special needs. In an extensive mind, special needs are generally acknowledged with very low outlooks. Now, technology has released many instructional gates for children with disabilities. Substitute resolutions from the scope of technology are cooperative physical, sensual, and intellectual deficiencies in many methods. The history of persons is constantly related to systematic and technological progresses. The unique area of specific prominence is that systematic and technological expansions are satisfying prevailing capability potentials (of often powerful social groups) and generate new capability opportunities. How the connection between scientific and technological developments and ability prospects shows itself out, forms societies and influences subdivisions of society such as disabled people. Capability outlooks by committed groups in society impress disabled people for a far-reaching time in classrooms for learning and encounter with innovative technologies to carry out an independent life in modern society.

Technology Enhances Opportunities and Quality of Independent Life

Technology has a progressive influence on student's daily learning practices in the classrooms. Technology helps students to be further involved; hence, students frequently maintain more evidence. Because of the appearance of new technologies hastily arising worldwide, technology is appropriate to the learners. Technology offers significant learning practices. The period of 21st century is often considered as an age of technology. Technology, nowadays, shows a very significant role in our life. It is realized as a source of growth of an economy. An economy which is lowly in technology cannot ever improve in today's situation. This is because technology creates our work much easier and fewer times intense. The influence of technology can be sensed in every potential arena one such arena is Education. Technology also makes available energetic learning occasions that can be incorporated into all school curricular extents, together with arithmetic, reading, science, and social studies as well as other educational topics. It provides students chances to cooperate with their peers ensuing in learning from each other. These features shared can lead to an encouraging influence on student learning and

enthusiasm. Additional aim of technology is a feature enhancing learning is the fact that technology is appropriate to a vital share of our normal lives. Maximum employees presently demand some kind of technology practice. Similarly, students and grown-ups are using technology on an everyday base to communicate, get information in manifold ways. The predominant regular use of technology in people's lives whole makes the usage of technology very appropriate to the students and offers a linking that will really advantage student learning and to have an independent life in the society. Technology has transformed the arena of education. The position of technology in institutes cannot be overlooked. In fact, with the start of computers in education, it has converted relax for educators to convey knowledge and for students to attain it. The usage of technology has completed the procedure of teaching and learning all the further pleasing in the life of person with disabilities.

We are a developing technological society and in many means have become reliant on on its usage. Therefore, the usage of technology and teaching students have to use it has become a great importance in the public schools. Due to the enormous usage of technology in the world in which we live, the usage of technology in teaching and learning is necessary if we are to make an enduring influence on how students acquire. Currently, with the start of the Common Core Standards and their stress on technology, the usage of technology will develop an even greater precedence in schools (Cristen, 2009). Since technology is an enormous portion of people's everyday lives, it is relevant and energetic that children learn how to use it at an initial age. While children use technology tools in basic schools, a sense of self-confidence and fitness in their computer skills will create as they become grown-up. Many children nowadays have access to an excessive deal of technology in their household; this access will outcome in students being contented by using technology at school as well. When basic school teachers use and ideal diverse methods of technologies, they destructively include their students and create a motivating work atmosphere (Kenney, 2000). Technology is a dominant supplier to learning if it is used to expand students' commitment in significant and academically reliable curriculum. Technology is a tool. It should be designated when it is the best tool for learners to acquire. Technology can be a mainly active tool for all learners and can improve the participation of children with disabilities. Children in basic schools would start to use accustomed technology tools as a portion of their educational program. Educators should model the use of technology in

provision of the curriculum so that children can realize the proper use of technology and advantage from experience to more progressive submissions that they will use independently when they are elder (DePasquale, McNamara, & Murphy, 2003). Many studies have revealed the benefits of using technology in classroom education. Technology can be used as a tool for creating important projects to engage students in critical thinking and problem solving. Technology can be used to reorganize and reformat the classroom to produce an atmosphere that inspires the development of higher-order rational skills (Kurt, 2010). Using technology in classrooms has the prospect to generate improved student enthusiasm, improved social relations, positive results, improved student learning, and improved student commitment. Technology is proficient of revealing keys of learning with all students. Technology also has renewed the nature of all kinds of actions. This renewal almost seems like effort. The skills required and treasured in professions have improved—in some ways, this may be a great advantage to persons with disabilities, meanwhile, many new professions have lesser bodily troubles than in the past. Still, the growth of professions in evidence and service areas also comes with an advanced exceptional on academy education, creating the accessibility of education progressively significant to the useful ability of persons aging with disabilities.

Benefits of Technology in the Life of Person with Disabilities

Technology also increases student cooperation. Cooperation is an exceedingly operative tool for learning. Students comfortably work together to endorse creates assignments or they can learn from each other by reading the strength of their peers (Keser, Huseyin, & Ozdamli, 2011). This kind of technology is an assessable and inspirational way to uncover students to other thoughts and values. These available literature dialogues can produce insight into community and adoptive positive social interaction (Coffey, 2012). Developments in technology have frequently been precisely better, former, and realistic produces which make life more appropriate and planned. New technology conveys benefit in a diversity of means to all those persons that have difficulty reading or who for several causes cannot read at all. Hence in classrooms that contain students with several infrequencies, technology can maximize educational chances and enhance results (Jenson, Taylor, & Fisher, 2010). Technology is an outstanding equalizer for people with disabilities and enables to full involvement in school, work, and also the society. This is

frequently most marked in the situation of people with mobility, hearing, or vision impairments, but is also accurate for people with restrictions in reasoning and opinion. Technology is a current wonder in our normal life that has occupied. Technology consents the most challenging tasks to become effortlessly relaxed and more effective. In education, technology has endorsed the distribution of knowledge to be circulated promptly and it permits for earlier and more actual communication. Also, technology has endorsed students to be involved and learn in practices that they always have in a classroom situation earlier. Technologies of all types can endure and fast-track enhancements in wellbeing and worth of life for an aged population, and improve the independence of persons with disabilities. ATs are typically used to sustain independence in the outcome, but the aged of personnel and their procedures shape special tasks to persons, their relatives, and the health care structure. The appearance of new “smart” technologies that incorporate information technology with assistive technologies has opened a gateway to the advancement of progressively influential, adapted tools to support individuals with disabilities to meet their requirements. Yet, matters of access and usability endure to be resolved for their worth to be completely recognized. New associates elderly with disabilities will have further means and more involvement with incorporated technologies than recent elders. Courtesy to technological resolutions that benefit them adapt to the trials of future life is needed to enhance the excellence of life for those living long lives with disabilities. Technology represents a great potential to afford the tools to undertake these goals from the different of the individual up to the wellbeing system. Yet, more normally technological resolutions for those with disabilities denote to assistive technology, an extremely diverse class of plans and methods that comprises both commercially advanced or purpose-built devices that are intended to promote with particular tasks; or conventional technologies, which function to make life easier for everybody, but maybe predominantly valuable for persons with particular challenges in day to day operations. Assumed the influence educational technologies can have on students with extraordinariness, it is significant to discover how teachers are involvement these tools in the special education classroom. I hope that this study will reassure educators that the procedure of technology incorporation is a valuable effort given the several benefits it has for this populace of students. Educators are using computers as tools to convey and facilitate learning further than tool and practice, to afford settings that accommodate learning, and to ensure improved and reasonable learning atmospheres for all students.

Conclusion

As part of encouraging the diversity of the 21st-century classroom, technology holds incredible worth to sustain several student requirements. Technology incorporation is an intricate procedure, as the needs, challenges, and strengths of each child must be wisely measured. This investigation study exposed that educators' distinguish educational technology to have a helpful influence on students with manifold infrequencies, mostly in positions of supportive communication and improving learning involvements in the special education classroom. However, incorporation of technology in this setting is positively reliant on the title role of the educator and the mark to which his or her capable support structure holds outlooks. The results of this study propose that educators necessitate a skilled learning community in which support, collaboration, and mentoring are presented. Frontrunners that create results relating to the potion of technology into the classroom must do so with an open mind and progressive attitude, and must redirect the educators' viewpoints. Former relationships concerning investigators and educators can also sustain to authorize that educators' opinions are no slower unnoticed. Technologies, together with high and low, have transformed all of our lives. Several technologies are extensively used to support those with disabilities function more independently. Technological innovation, particularly the development and incorporation of information technology with assistive technologies, has released a gateway to the development of progressively influential, modified tools to assist persons with disabilities to meet their needs. Yet, matters of access and usability endure to be resolved for the practicality of "smart" technologies to be entirely recognized.

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