

ISSN 1712-8358[Print] ISSN 1923-6700[Online] www.cscanada.net www.cscanada.org

The Effects of Communication Technology on Education

Amna Bulhoon[a],*

[a] United Arab Emirates University, Abu Dhabi, Al-Ain, United Arab Emirates.

*Corresponding author.

Received 13 May 2021; accepted 13 June 2021 Published online 26 June 2021

Abstract

The 21st century is known as the era of technology development and it covered human life. Technology makes human life easier and becomes an integral part of the day to day life. Technology is a tool for communication and information which was used all over the world and makes life more convenient for everyone. Technology advancement makes our life simpler and fast. Communication technology is important for the development of a nation or a society because it's a way to communicate between individuals or a group of people. This researcher paper defines the role and effects of communication technology in education. The researcher applied the knowledge gap and theory determinism theory which describes that students having better socio-economic status use communication technology in education as compared to the student having low socioeconomic status. The review literature analysis identifies the role and effects of communication technology in education. Communication technology is developing our society and education but it also impacts our physical abilities. Technology is a core element of the world but individuals know how to use these technologies effectively.

Key words: Communication; Technology; Education; Effects; Role

Bulhoon, A. (2021). The Effects of Communication Technology on Education. *Cross-Cultural Communication*, 17(2), 130-138. Available from: http://www.cscanada.net/index.php/ccc/article/view/12069 DOI: http://dx.doi.org/10.3968/12069

INTRODUCTION

Heek defines that communication is a core element and major foundation of improvement procedure and technology is utilized to support the data and communication needs. Technology is affecting the improvement of the country and is recognized as a vital part of improvement progression (2017). Keser & Definition (2019) explain the importance of the technology, that technology is broadly utilized in all segments within the near future, education frameworks ought to be redesigned to meet the qualified manpower required by this self-motivated process. The capacity of companies and education with solid data and technology framework to reflect advanced technologies development and production processes, which requires a few certain abilities, is depicted as 21st-century abilities.

Ells (2019) describe the current communication course readings proffer clashing, unclear, or inadequate description of the central perceptions and concepts of mass communication and news, contributing to perplexity among understudies, and along these lines within the public sphere. The comprehensible explanation of mass communication from the correlated concepts and perception of mass media and intervened message, as well as separating the concept of "news" from the adjoining concepts of news coverage and entertainment. In 2018, Zheng, Hatakka, Sahay & Andersson explain that communication technology is a challenge of quickly changing the advancement process and progressively complex social elements. They contend in their research that communication technology for advancement role requires a more intense sense of where our research is arranged inside a broader picture of improvement, e.g. with distant a much better, higher, stronger and improved understanding of advancement processes, their ideological nature, the control structures and driving powers, and the components through which it may be implanted in and shape these forms of communication technology.

House & Giordano (2020) describe the advancement and development procedure in computerized telecommunications or technology which is shifting that how individuals can convene and made choices. Technological revolutionizes and offer assistance individuals social, physical, and mental limitations, and having derived impacts on gather behavior and choice making. The diverse tests appear that compared with a physical meeting, a computer base technology leads talk; more unequivocal and blunt promotion; having more interest among different group of individuals; and making unsafe choices. The different technological and social mental factors which were the reason of these impacts in research facility groups were not scale at equal rates. Technological changes in organizational group for making choices can guide which are not seen within the research facility but it is the basic for field research.

Almerich, Orellana, Suárez-Rodríguez & Díaz-García illustrated the competences of communication technology among teachers. Communication technology capabilities are a key variable to coordinate such assets into the teaching-learning process. One issue with teachers for communication technology was the competencies comprise of different systems of multiplication which involve a need for the definition of these competencies to use the technology in an effective way (2016). Lin works on advancing the research field of intervened communication technology selection and uses, one of the foremost important improvements includes the expanded integration of particular communication research traditions. This rising combination presents a phenomenal opportunity for communication researchers to share, bestow, and challenge the "native" tradition that each has taken after. Communication technology gives the components that offer assistance to shape and appropriation choices of different communication technologies and the potential effect of technology selection on the social framework, gatherings of people, and utilize patterns (2003).

In 2015, Computer technology is changing at a fast pace. Digital technologies permit individuals to put through the globe at high speeds at any time. Indeed those in remote, developing regions progressively can put through online through phone and Internet (Levy). Foster (2015) believed that high-performance computing (computer technologies) can be utilized to prepare huge sums of information in a short time outline, to make sense of large amounts of organized and unstructured information or big data collected using modern detecting advanced technologies, and to scale and approve models in ways not already conceivable. Web and cloud technologies allow these capabilities to be made accessible to expansive numbers of conclusions to the users with comfortable and incomprehensible procedures. One of the foremost distinct characteristics of the world is technological advancement. Worldwide Supply Chains and the Logistics industry are critical recipients of technological progress. The world gets to be increasingly digitally in this era. This can be the huge potential of the long term future. The logistics patterns anticipated for 2017 and other years are more substantial. The advancement of Logistics 4.0 is making tremendous changes inside companies.

Numerous analysts and companies are persuaded that mechanization, organizing, and digitizing will become increasingly imperative inside the industry. Gartner analysts have recognized different vital technology patterns that will have an effect on companies in the close future and they will shape the computerized commerce opportunities by the year 2020 (Oleśków-Szłapka & Lubiński, 2016). According to Jääskelä, Häkkinen & Damp; Rasku-Puttonen research work, the college teacher's conviction on the part of technology. Technology plays a critical part in accomplishing the educational points of learning inside educating advancement activities at the college level. The activities focused on innovation appropriation in instructing and learning and were upgraded inside teacher groups, with support from a university-level network program. The technology was seen as an apparatus for the advancement of self-paced examination without express learning points; for dynamic and intelligently learning; for integrative learning with nonstop evaluation; and for significant learning (2017).

OBJECTIVES OF THE STUDY

The objectives of the study are:

- 1. To define communication technology.
- 2. To observe the role of communication technology in education.
- 3. To identify the effects of communication technology in education.

Research Questions

The researcher worked on the following research questions:

- Q1. What is communication technology?
- Q2. What is the role of communication technology in education?
- Q3. What are the effects of communication technology in education?

Rationale of the Study

Communication technologies help students to access, create, and produce information and media content and also work to empower students in their education. The purpose of communication technologies is to connect the students in the digital society and they were able to recognize, use, inquire, produce, correspond, and think seriously about their surroundings. Communication technologies help the students to increase the level of education and broader their communication circle. It is significant to have the ability to access, analyze, classify,

evaluate, and create messages effectively in different forms. The research encompasses private and public sector universities to obtain a comparison regarding the availability of communication technology and the consequent difference in practical accessing education. The execution of technology in the educational sector has not been the main concern of our society in the educational improvements and the government should pay more attention to the development and usage of technology in our education sector in increasing the level of education and to improve our communication skills. Therefore, society should enhance communication technologies execution at the institutional level and develop effective strategies in the advancement. The present study aims to focus on the research gap which exists in the form of communication technologies having their role and effects in the education and communication sector.

LITERATURE REVIEW

Lai & Bower (2019) conduct research and define the huge diversity of methodologies, settings, and viewpoints which were utilized to assess the use of innovation in education. The tremendous cluster of writing including education technology assessment makes it challenging to obtain a precise sense of the diverse angles of learning that are assessed, and the conceivable approaches that can be utilized to assess them. This study conducted a precise audit of how technology utilizes in education has been assessed, based on different research papers published in Computers and Instruction between the two years (2015 and 2017). The papers investigated encompassed a differing extend of educational disciplines, levels, and technologies that were broadly used and learning technology field from other studies. The investigation evaluates the learning technology utilizes tended to center on eight subjects: knowledge results, emotional components, plan, behaviors, technology components, instructional method, presence, and organization environment. Evaluation patterns for diverse technologies, educational levels, and disciplines are also set up. The educational levels conclusion give an expository system that teachers and analysts can utilize when assessing the utility of technology in education and seem to potentially advise the advancement of modern, more all-encompassing, and more vigorous assessment strategies. Liu, Yang & Gui (2019) illustrated the emergency of communication technology in the 21st century. The Internet of Things has critical significance within the past fifth era communication frameworks. In any case, the internet is powerless to disasters since the network is mains powered and the gadgets are sensitive. To oblige the communications of the surviving clients and the Internet of Thing gadgets proficiently, a multiobjective asset assignment scheme is proposed for the assistance. To begin with, the initial multi-objective resource issue is defined and decoupled with the client control initialization. At that point, based on a reweighted message-passing calculation, the sub-channels are allowed to the gadgets and the clients in a stepwise way. At last, the transmitting control of the clients and the gadgets are mutually fine-tuned utilizing an iterative get to control scheme.

Chang & Hwang (2018) presented a systematically evaluated study that publishes in journals from 1998 to 2016, analyzing the application spaces, subjects, received learning techniques, research issues, and the discoveries of versatile technology-assisted medical instruction. The results showed that the applications of mobile technology in therapeutic education and preparing have not however picked up ubiquity. Even though there were expanding the number of mobile learning studies in therapeutic education and the later investigate results have ended up more assorted, versatile learning is primarily connected to therapeutic education for moving forward learners' information comprehension and aptitudes instead of encouraging their higher-order considering (e.g. issue solving or basic considering). On the other hand, it is found that the number of studies utilizing a test plan expanded significantly in later a long time. Most studies embraced survey studies to examine

Learners and cognitive execution and ideas, whereas learning behaviors were at times analyzed. Appropriately, a few investigate issues of portable restorative instruction are proposed. Faroog & Soomro (2018) depicted in their research study that technology has impacted the knowledge and education approaches and has an aim to develop the levels of language in the teaching and learning process. The study focuses on the preference of the teachers and the use of technology in their verbal communication classrooms. A survey was conducted to look for the supposition of instructors both male and female at the English language center on technologyrelated competencies. The study comprised four spaces: arranging and planning, classroom administration, instruction, and proficient duties (Danielson, 2007). The survey was dispersed among 100 English language instructors (50 males and 50 females) at Taif College English Language Centre. The reactions revealed that most of the instructors thought aware of the technology and its employments in education don't coordinate innovation in their education at the planning and arrangement level. They use the accessible technological contraption within the classroom to exploit a few of the exercises. They must utilize the University for uploading certain exercises and appraisal something else they hesitate to plan technologybased exercises for English language learners. The students and teachers require training in coordination technology with teaching and learning purposes.

Laitinen & Valo (2018) research communication technology and said it is a necessary part of practical teams in working life. This study worked on qualitative research on the implications of communication technology in practical group meetings. The study was conducted by analyzing the outlines of technology-related virtual group interaction. Observational information was accumulated from six master group gatherings. Four outline categories were found: the practical outline, work outline, client outline, and social outline.

Group individuals talked approximately innovative properties and capacities as well as giving and getting mechanical direction. They moreover examined technology in connection to work assignments, contemplated technology users' properties, and built and kept up connections with technology. The results show that virtual group individuals provide implications to communication technology whereas collaboration. Communication technology has a few meanings; it is seen as an apparatus for work, a reason for instability, a valuable advantage, a challenge, a question of competence, an substance of specialized properties, a way to specific closeness, a subject of direction, and shared space. The results suggest creating both mechanical frameworks and group members' ways of utilizing them, as well as giving opportunities to arrange the implications of technology and hence avoid outline debate. In expansion, ensuring that the practical groups use mechanical frameworks that supports communicational needs.

Bray & Tangney (2017) conduct the study which was considerable in the field of research, it was relating to enhancing the technology in mathematics education and the use of digital tools to enhance the learning experience. The purpose of this research is to require an organized look at the sorts of experimental involvements progressing within the field and to endeavor to classify and analyze how advanced apparatuses are being utilized in such research. A framework of classification, created as a portion of this research, is utilized to categories the computerized devices, the educational establishments and objectives of the activities, and the levels of technology incorporated within the studies. Examination of the results of this classification highlights dissimilarity between what is being investigated in distributed experimental studies and approaches that have been recognized as optimizing the potential of technology to upgrade mathematics instruction. Potential reasons for current patterns are proposed and investigated.

Durak & Saritepeci (2017) investigate the effect of technology which was used in classroom management education and technology incorporation development. The study utilizes both qualitative and quantitative methods which are also known as descriptive mixed methods. The structure interview was created by the analysts for information compilation. The study advancement shows

preparatory applications were approved before the actual application. The application was conducted in schools that utilized intelligently board, tablet computer, and program technologies inside the system. The content investigation strategy was utilized for the examination of the information acquired using the interview shape. According to the results obtained by semi-structured interviews in the research study, the evaluation of the subclasses between the normal scores of intra-classroom and behavior administration related to the advanced other sub-scales groups. Normal results obtained from the classroom administration order and sub- dimension of the education sector were at minimum level. The impact stage of technology utilized the classroom administration or by the teachers within the classroom was direct. There was no measurably critical impact level of technology and in the contrast the use of technology by teachers within the classroom or in the classroom management, but for the inconsistent of day-by-day use of internet. The teachers expressed that tablet computers utilize within the classroom driven to time administration issues, access issues with certain interruption during the lesson and negative student behaviors towards the excessive use of internet or technology.

Jaakkola, Henno, Mäkelä & Thalheim (2017) explain the consequence of technology in the educational background, accepting the future is important for technology and education for two reasons. To begin with, they are teaching individuals for future tasks, which require abilities that are valuable within the future. Furthermore, teachers need to be able to choose the foremost promising instruments and advances to apply in their work. The issue is that there's no clear way to weigh the significance of the options - what the genuine significance of a certain technology will be within the near future and particularly within the long term. In this paper, they center on analyzing chosen technologies. Our approach applies the system created by the creators. The promising advances are checked on by efficient writing study, centering on and confined to the communication technology division. The findings are classified concurring to their significance and the period of their adequacy. The address we reply is "What ought to each teacher know around changes in technology?"

Jari & Theresa (2017) worked on knowledge organizational field which must understand and recognize the technological interruptions. In the latest market conditions, corporate and technology premonition are the key components of trade landscape investigation. Authors show key definitions and contrast between disruptive developments, technological disturbances, and radical advancements. These three key concepts are profoundly relevant for advanced corporate management foreknowledge. In this manner, they centered on technologies that they accept having the noteworthy

potential to drive financial effect and disturbance by 2025. A financially disruptive technology must have the potential to form enormous financial effects. Hence, they will show the disruptive advances that drive most financial development and efficiency. Authors argue about key components of current technology change and summarize it to form huge a picture and way better understanding. In this way, they show comparative analysis about the changes within the Gartner buildup cycle between a long times (2008–2016), which confirms this imperative viewpoint of quick technological disturbance. They show the foreknowledge apparatuses for the development of information management and enterprise administration. Modern devices for corporate and technology foresight are required. These modern devices offer assistance leaders to oversee instability, vulnerability, complexity, and uncertainty particularly within the turbulent conditions of hyper-competition and technological disturbance.

Maheswaranathan (2017) defines the convenient gadgets and numerous machine-to-machine gadgets that can switch between cellular technology and disciple technology which guarantee to arrange networks. Whereas the programmed handover is valuable, there are circumstances where it is desirable to have more noteworthy control over the configuration of the communication modes of these gadgets. Appropriately, embodiments of the latest development depict the capacity to assign a prioritized list of communication modes, the capacity to physically design communication modes specifically on the gadget, the capacity to arrange communication modes remotely over the air, and the capacity to arrange communication modes agreeing to a geophone.

Martín-Gutiérrez, Mora, Añorbe-Díaz & amp; González-Marrero (2017) identify in their research work that technology has been applied in many sectors such as medication, business, video games, teaching, education, or tourism. Maybe its greatest region of interest has been recreation and entertainment. Regardless of the segment, the presentation of virtual or increased reality had a few limitations: it was costly; it had destitute ergonomics, or inferred as well much work to form substance. Later technological advancements, counting the fast selection of smartphone by society, have encouraged the get to practical reality and increased reality of anybody. In expansion, a few expansive companies like Facebook, Apple, Magic Leap, and Samsung among others, have expanded their speculation to form these advances to progress their availability within a long time. Educational institutions will advantage from superior availability to practical technologies; this will make it conceivable to teach in virtual or practical situations that are incomprehensible to imagine in physical classrooms, like getting into virtual research facilities, visualizing machines, mechanical plants, or indeed medical scenarios. The huge conceivable

outcomes of available virtual advances will make it conceivable to break the boundaries of formal education.

Risling (2017) describes the technological evolution in the healthcare sector. In this article explanation technology development is recognized that is likely to impact nursing practice and instruction over the other decade. The complexity of curricular modification can make challenges within the rapid change in the practice. Nurse educators are energized to consider the part of electronic health records, wearable technologies, huge information, and data analytics, and expanded quiet engagement as key ranges for educational programs advancement. Student nurses, and those as of now in practices, ought to be advertised progressing instructive opportunities to improve a wide range of proficient informatics abilities. The nurses of 2025 will most certainly possess a diverse practice environment than what exists nowadays and technology will be a portion of this change. Nurse educators must prepare presently to lead these professionals into the long-term. Tondeur, Van Braak, Ertmer & Ottenbreit-Leftwich (2017) review the additional sympathetic link between teachers' educational beliefs and their educational technology uses. The synthesis of qualitative findings coordinating the accessible proves around this relationship with the extreme objective being to encourage the integration of technology in instruction. A metaaggregative approach was utilized to analyze the result about of the selected studies as a discussion for this study. The findings are detailed in terms of five amalgamation articulations, portraying the bi-directional relationship between academic beliefs and technology uses, teachers' beliefs as seen obstructions, the affiliation between particular beliefs with sorts of using technology, the part of beliefs in proficient advancement, and the significance of the school setting. By translating the results of the audit, suggestions are given for specialists, approach creators, and researchers to focus on the teacher service relating to technology training.

Yu, Lin & Liao (2017) define digital inequality and depicted that digital inequality is the most critical issue in this information age era of the 21st century. Few studies have inspected the social imbalance in data resources and computerized utilization patterns. Within the country ranges, such data communication technology facilities seem not to ensure that clients can effectively get to data technology and overcome the so-called digital divide. This research aims to find the psychological components that impact data and communication technology appropriation behavior, as well as confirm whether information literacy and digital skills have mediator impacts within the research model. The proposed hypothetical demonstration appears that the effect of communication technology selection behavior is directed by data proficiency and computerized abilities. The findings of this investigation can offer rules for arrangement producers and teachers who evaluate a community and selection behavior to supply appropriate get to technologies and advance its visibility by incorporating in educational activities.

Theoretical Framework

Every researcher has some specific theoretical framework according to its research objectives and research questions. Kerlinger defines the theoretical framework in 1973, he describes that it demonstrates all the concepts, definitions, and recommendations related to the research. It clarifies the phenomena upon which the thesis investigation hopes to fill the vacuum in the stream of information and knowledge. The researcher applied the Knowledge Gap Theory and Technological Determinism

Knowledge Gap Theory

Donohue, Tichenor & Donohue, It was defines as the combination of mass media information into a community structure which enhances the socioeconomic status section and its lean to obtain the different information quickly as compare to the people having lower socioeconomic status around the world or individuals. The main objective of the knowledge gap theory that people who have higher socioeconomic status students have better communication skills, technology exposure, and improvement in educational trends; like reading, use of technology, and information as compared to the lower socioeconomic status students in the society.

Relevance of Theory

Knowledge gap theory defines that when there are greater exposure and availability to communication technologies, those students have sharper skills of communication and analyzing and responding to information. They can recall information promptly due to earlier access to information through different technologies. Also, students who have more access to communication technology are placed in a more relevant social context. Their retention, exposure, and acceptance are better than those students who belong to less privileged socioeconomic class and those have limited facilities.

Technological Determinism Theory

Technology determinism theory was originated by Thorstein Veblen in 1929 who was an American socialist and economist. He defines that the technological determinism theory is a reductionist theory that accepts that a society need technology decides the improvement of its social structure and social values. The main idea of the theory was that technologies have a prominent role in the development of society and it affects the life of the individual (Rogers, 2000).

Relevance of Theory

Technology determinism theory shows the role and effects of the importance of technology in society. The same as communication technology also plays an important role in the educational sector. The effective use of technologies makes a student's life more development and enhances his educational skills. In the 21st century, communication technology is a need of every individual of the society for enhancing their communication skills, keep updated with the surroundings, and improve their standard of living according to society. Technology impacts the individual role in society and fulfills their social values and needs.

DISCUSSION & ANALYSIS

Communication is additionally a social activity and prerequisite. Communication decides the circumstance of culture, peace and control in society around all over the world. Communication provides communication solid association among communication and individuals to build societal character. Human improvement is owed to communication since the advancement character of communication (Tench and Moreno, 2017: 122). The improvement of the communications framework is a fundamental portion of the improvement of the country as an entirety, communication frameworks being a portion of a nation's social education. Besides, every social institute features the task of causative and complex which is working for the improvement of the social teaching techniques and for nation also. It could be multifaceted and forbid the relationship. Whereas mass media, hence, are created by culture and society, they help to create advance or developed society and to advance its goals also. The goals of the individuals incorporate the democratization of the media and society to have a particularly basic part to play in any society requires communication to create and to adjust worldwide conditions (Cereci, 2019).

The communication technology is a leading challenge for the educational system in the modern era. Writing, reading, and arithmetic, were the primary devices that essential an extended and formal instruction framework. At such time, the brain and body devices could be learned through casual instruction and disciple frameworks. After some time, researchers started to have prescribed schools that have numerous characteristics of today's schools. In the past few years, technology has seen a colossal development within the numeral of understudies accepting recognized education and the formal educational length. Strategies and advancement of instruction have distorted numerous times and mechanical conveniences have also altered in educational system (Moursund, 2005). Communication technologies have an influential part in all aspects of modern society, in health, entertainment, commerce, and business. It was proved through different research that education is not exclusion. There are different references and bibliographic sources in which specialists anticipate which advances will be the most

important in future education. Likely the New Media Consortium Horizon Reports were the most globally acknowledged studies in the educational field (2019).

In 2018, Digital Technology influences the advancement in the learning process, moreover modernizing the different research progress. The most critical thing in the higher educational institutions showed up that the genuine digital change in the educational sector or institutions. The educational process itself improvement and conduct of affirmation candidates for preparing in modern programs of higher instruction and quality change understanding of already acting positively compensated programs. In specific, for the hospitality industry, the Internet makes a critical commitment to maximizing the dissemination of data about the products and administrations offered. The Internet incredibly encourages the data process (Watkins, Ziyadin, Imatayeva, Kurmangalieva, & Camp; Blembayeva).

In the current era, technology and educational development cannot be disconnected. In the last three decades, different researchers observed a variety of technological gadgets in the classroom. Technological contraptions have been converted into the part and divide our life which is obvious from the utilization of cellular phones and the internet. Digital technologies are acknowledged as effective tools within the advancement of teaching and education, that's significant within the 21st century. The ever-increasing utilization of technology has made competitive economies, develops knowledge-based social orders, and improved the method of innovative instruction and education system (Farooq & amp; Soomro, 2018).

Hansen, Postmes, Vinne, & Thiel describe that there are small number of educational institutions or systems those do not use technology. Contemporary learning techniques required technology for contemporary conjuncture naturally and to fulfill different technologyrelated conditions. Technology is some of the time used to spend luxury time but it gives to work proficiently and to instruct effectively. The numerous number of different businesses use technology for entertainment and organizations utilize technology for work and individuals moreover utilize technology to keep themselves updated and to survive in the modern world. The educational institutions by and large utilize technology to instruct the most excellent education. Data and communication are two imperative commerce of advanced age and they support on advanced technology. Nearly, all technology or innovations are apprehensive with data and communication. Through this way, information and communication base technologies are the part of the modern age and long term. In this manner, data and communication innovation require utilizing technology in education and numerous instructive organizations utilize innovation to instruct data and communication within the world (2012).

Levy quoted the use of modern technology in education which was suggested in the back 1921with the issuance of, to begin with, educational radio permit to Pennsylvania State College for broadcasting courses and after in 1924, the British Broadcast Organization which was named as BBC, began educational programs counting English language learning and instructing through radio broadcast. Another step was to test the television invention in the 1930s. Skinner was an advocate of modified learning and he advocated the use of educating machines for individualized enlightening which would be responsive to the preferred pace of the learner (1997).

Alharbi (2013) mentions that a teacher's conviction, thinking, and belief is an imperative factor in using technology in the classroom as they don't think that when and how to utilize technology within the classroom. Teachers tend to conventional strategies to follow or implement the technology by moralistic guidelines strategies while teachers with valuable approaches tend towards student-centered strategies. Past studies reported that teachers who were constrained to utilize computers in their teaching methods eventually picked up confidence, certainty, abilities, and skills. Technology has given us modern opportunities that can change the method of teaching and learning which suggests that a teacher can make a diverse learning environment that advances interactivity. For such an environment, an educator or teacher must have a few technology-related competencies and preparing how to coordinated technology with teaching (Sessoms, 2008).

In the development of modern technology and investigation of the thinking pattern of individuals which are changing in the classroom. Modern eras of technology in educational sector are affecting models and speculations that are anticipated to supply the bits of knowledge essential to develop educational technology investigate in promising new directions. New instruments are considered to engage teachers to modify the way of instructing, learning and teaching. As existing social patterns involve individual that the citizens should be more explanatory observer and able to synthesize information and data, existing educating practices must create the higher level of thinking and considering abilities. This practice should begin with a teacher's analysis and instructional method advancement during the training of their relevant occupation (Samaras, Giouvanakis, Bousiou, & Dousiou, & Tarabanis, 2006).

In the contemporary era, the level of a country's socioeconomic advancement is to a great extent decided by the capacity to create modern information and execute it in high technology. Education is the modern need, which contributes to developing the competitiveness of national economies within the setting of increasing globalization. These days, there are numerous approaches, which can impact the patterns of educational trends. Digitalization implies that there will be uncommon strategies within the education administration and it'll be the central factor within the development of generation and labor efficiency. As the world economy advances, the advancement process is additionally evolving. Globalization has driven to an emotional development of undertaking get to information and modern markets. It moreover caused an increment in worldwide competition and the development of modern organizational shapes for overseeing worldwide supply chains. The steady flow of the technological advancement of the nation is inconceivable without guaranteeing the compelling application of advanced solutions in innovation. As the world gets to be progressively digitally, computerized stages ended up an imperative device for intersectional change, as they increase the productivity of the advanced environment; offer assistance buildup high-speed and dependable communications, support the method of joint creation of products and administrations by organizations from diverse nations and time zones (Ordov, Madiyarova, Ermilov, Tovma, & Dry, Tovm Murzagulova, 2019).

The definition of technology education and measures change concurring to societies and culture needs. Dugger and Gilberti separate technology instruction into two categories as students' understanding of approximate innovation and students' capabilities in the technology field. The primary characterize the elemental concepts and mechanical information that how innovation works and the significance and position of technology in the/our world- moral issues and wording related to IT and technology. Another category incorporates students' technological aptitudes and efficiency capacities in the data technology field. These two diverse approaches toward technology education complement each other (2000).

CONCLUSION

In 20 century, technology is known as an integral part of living which was referred to as the fourth revolution accompanied by challenges and opportunities. The complexity of the technology as embedded in different social developments. Technology features a structural character and can incorporate and exclude. Technology is hence understood as more than gadgets that can be used but also suggest an attitude towards life. The technology used demonstrates that the effect of technology in education isn't direct, but as many different opportunities, also postures, and few challenges proved that. These challenges and opportunities are specifically connected to the nature of technology and socially implanted medium. The integration of technology into educational context was common and philosophical instruction particularly (Cloete, 2017).

People who consider technology as unbiased see innovation as neither great nor terrible and what things are how we utilize technology. Mackenzie and Wajcman accept that innovation is unbiased as it were on the off chance that it's never been utilized before, or if no one knows what it is getting to be used for. Society is nonexistent and once getting to be learned about technology, society is drawn into a social movement where nothing is neutral approximate society. Concurring to Lelia Green, if one individual accepts technology is unbiased, one would ignore the cultural and social conditions that technology has delivered. This see is additionally referred to as technological instrumentalism (Green, 2001). Ziyadin, Omarova, Doszhan, Saparova, & Doszhan, & Zharaskyzy conclude that digital technologies within the locale will be effective due to: multi-purpose sharing of generation capacities, lower costs, due to the levelheaded, as well as the concentration of dispersion systems, the arrangement of channels of data, information, technology and administrative abilities (2018).

Teachers are capable of joining educational technologies into guidelines practices. Education and teachers both have the opportunity that they individually enlightened themselves with numerous technological gadgets that were easily accessible by every child in the educational sector with extraordinary needs. Teachers and educational institutes can promote technology independence for students by empowering them to perform different tasks by students according to their needs who are incapable to realize or have troubles to realize. Mechanical devices incorporate a diversity of preferences to assist students in the activities in classroom. The use of technology provides variety of the information and instruction among the user and user inviting accessible technologies into the subjects like math which provide instruction for students and educators. It can improve the achievement of every students with different sorts of disabilities within the educational sector (Khalif, Gok, & Kouraïchi, 2019).

In 2009, Pierce and Ball emphasized that teachers have positive states of mind towards utilizing technology in scientific classes; they think that there are a few boundaries to ought to be addressed and progressed as well. This is often compared with the findings of the different research studies in which education was focused and teachers reported that although utilizing technology in instructing which encourage educating of different concepts and abilities, disconnections within the internet, having no web and no criticism from technological gadgets are a few issues that tended to be focused on education through teachers (Huang & Teo, 2019). In 2017, Hussain & Suleman enlightened that the communication technology have the positive impact on the educational system and also provide platform for to achieve their goals. The recent era came suddenly and conveys many diverse mechanisms into the life of individuals. Instruments, procedures, and beliefs changed and individuals started to survive completely different approach from the earlier period. Technology

had independence over individuals' life and people are unable to survive or spend time without technology. Technology had a vital part in the individual life from lifestyle to the trading world. Data and communication got to be the foremost critical mechanism of advanced globe trading. Data and communication instruction care all over the world and nearly all instructive organizations had data and communication offices. Since the economical advancement of the modern world is based on data, technology, and communication. A few innovations such as e-books, digital content and advanced libraries, e-learning stages, and models, portable and ubiquitous advances form of learning, whose significance in higher education has been recognized in past and focused in general education. In expansion, it has permitted the discovery of other technologies that are playing a key part in building education, for the case, test systems, and virtual labs. Advancement of technology has given new potentials and abilities that can change the method of teaching, education and learning. Changing the method of educating and knowledge will signify that teachers produce essentially distinctive teaching situations that advance interactivity. Another ways of education or teaching will be fulfilled by upgrading the abilities of experienced institutional teachers but more development occurs by future technology advancement. The teachers require time to filter themselves through the potential of technology advancement and to recognize those capabilities which can impact the education, learning and teaching techniques or practices. Time allows teachers to create interactive ways of teaching in the different education sectors and use communication technologies in education. Within the last few years the current highlight of the communication tools has been created in taking after the patterns received over the globe. Among all the communication tools or applications, these smartphone applications such as Facebook, Twitter and WhatsApp are using world wide as a communication application or tool. Generated with the highlighted eras of communication advancement, the new technology is used to transfer data with the modern procedure and provide more helpful ways to gather and spread information in the society and world. It can be observed within the endeavor to upgrade the requirement for social presence, it is vital to reinforce digital-mediated technology for communication counting different social media communicating applications with a more suitable way to appreciate linking with other clients within a variety of purposes. This specific view focuses on the plan include to empower a person's identity to have an interpersonal relationship that is fundamentally determined by confronting face-based communication through different technology. Same as the advancement of technology is improving our communication pattern the same as technology is use in educational development.