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February-2019

Special Issue – 154 A

**Use of ICT in Teaching Learning Process**

**Guest Editor:**

**Dr. Leena Pandhare**

Principal, Late Bindu Ramrao Deshmukh Arts and Commerce Mahila Mahavidyalaya,  
Nashik Road

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## **Integration of ICT in Teaching and Learning Process**

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### **Abstract:**

In the present era the education system is continuously revolving one of the reason being technology which is transforming life of every individual in the society. Technology has bought major changes in the lifestyle of an individual. Technology has created major impact on each and every sector. Education is no exception to this. Access to technology has become easier and affordable. In this dynamic and competitive environment it is a need of an hour for every individual to continuously update themselves. Technology is now days considered to be a blessing for the active learners.

The term Information and Communication Technology (ICT) gained its importance at the end of 19<sup>th</sup> century. The education system of India is becoming informative, communicative and technology oriented with the use of ICT. So it is a need of to make smart use of ICT resources available. In 21<sup>st</sup> century wide spread and access of computer and mobile technology is make things more effective and efficient in the process of teaching and learning. ICT has effective role in Infrastructure development in education sector as well. Smartphone with internet connectivity are the key feature of ICT in the world. ICT created the revolution in telecommunication sector.

In today's era technology is integrated with education which has open the doors of education for masses almost free of cost. In this paper an attempt has made to discuss about integration of technology with education. This paper also focuses on importance and advantages of ICT. It observed and concluded that, integration of technology with education has bought revolution in the field of education where each component in education system has to respond to the fast changes in technology. Integration of ICT with education has opened the doors for everyone who desire to learn irrespective of age and affordability and creating time and place utility. It is suggested that, all the educational institutions from KG to PG should create awareness amongst the parents and various stakeholders for benefits of ICT in education.

**Key Words:** Integration, Information and Communication Technology, Education, Technology.

### **Introduction:**

The present era of education system is changing the trends. It is transforming from traditional to modern system. Technology is one of the dynamic resources of transformation of education system which is transforming the life of every individual in the society. Technology has bought major changes in the lifestyle of an individual. It has created key impact on each and every sector of the society. Technology has becoming easier and affordable for people. There is immense need for individual to continuously update themselves about ICT. Technology is a blessing for the active learners in Modern era of Education system.

The term Information and Communication Technology (ICT) has major role in education system. The education system of India is on pick level. ICT has created the revolution in telecommunication sector. Every individual is connected by Smartphone through internet connectivity.





Technology is integrated with education system. Integration of technology with education is benefited for teachers, learners, society and government in teaching and learning process. Integration of ICT with education has opened the doors for everyone who desire to learn irrespective of age and affordability and creating time and place utility. Educational institutions from KG to PG should create awareness amongst the parents and various stakeholders for benefits of ICT in education.

In 1991<sup>st</sup> India accepted the Liberalization, Privatization and Globalization Policy (LPG). The prime objective of this is to educate, empower and aware about ICT amongst the peoples. 'Digital India Campaign' is good initiative started by the government of India which is the part of ICT. It is helping for people in saving time and providing the use, quality and place utility. The ICT is impacts on social, economical, political, cultural and environmental sector of the country. Dr. APJ Kalam was dreamed India-2020. They believed that, India have ability of becoming a superpower in the world. Becoming the Superpower, every nation required to accomplish massive achievements in different sectors i.e. science, technology, research, infrastructure, economy, society, environment, education, information, services and ICT. U.S.A, China, Russia, Japan and Germany are the Top on the list of Superpowers in the world. Information and communication technology (ICT) is the main sector which boosts the Nations inclusive growth.

Today we are in 21<sup>st</sup> century and ICT is becoming strength of every sector of the development. In Auto Mobiles, Marketing and Business, Manufacturing and Distributions, Industries and Communications, Teaching and Learning's, Goods and Services and so on. ICT is the Information and communication technology but now in Modern era ICT is a combination of three different concepts which are connected with each other i.e. information, communication and technology. We aren't overlooked the importance of technology. Technology is not only supporter of information and communication but it have own identity. ICT is major role in Education System. The teaching and learning process becoming smarter with the use of ICT and its tools. ICT gives the advantages for teachers, learners, society and Government effectively. ICT brings more accuracy and excellence in the work of individuals. Knowing, understanding and learning ICT is becoming essential for People. In this study researchers try to know the importance of ICT in teaching and learning process. They Study the ICT Initiatives In 21<sup>st</sup> Century. They also try to understand the advantages of ICT for Teachers, Students, Society and Government of India.

### **Objectives Of The Study:**

1. To know the importance of ICT in teaching and learning process.
2. To study the ICT Initiatives In 21<sup>st</sup> Century.
3. To understand the advantages of ICT for Teachers, Students, Society and Government.

### **Definitions:**

According to the Girish Kumar Sahni (2016) ICT is an umbrella term that encompasses all communication technologies such as internet, wireless networks, cell phones, satellite communications, digital television, etc. that provide access to information. <sup>(25)</sup>

Blurton defined the term "ICT is an accepted acronym of the word information communication technology. It is a diverse set of technological tools and resources used to communicate and to create, disseminate, store and manage information." <sup>(1)</sup>

Wikipedia gives the definition of ICT is as Information and Communications Technology (ICT) is an extensional term for Information Technology (IT) that stresses the role of unified communications and the integration of telecommunications (telephone lines and wireless signals) and computers, as well as

necessary enterprise software, middleware, storage, and audiovisual systems, that enable users to access, store, transmit, and manipulate information. <sup>(6)</sup>

CARNOY, Martin (2004) <sup>(2)</sup> in his study titled, 'ICT in Education: Possibilities and Challenges', explained the term ICT in four separate concepts. These are followings.

- **Information:** (or data) in paper or electronic format
- **Communication:** in person or electronically (electronic communications), in writing or voice, telecommunications, and broadcasting
- **Information technology (IT):** including software, hardware and electronics
- **Communications technology:** including protocols, software and hardware

So in simple words ICT is the combination of information, communication and technology. They work for each other and create great impact on different sectors. In another words ICT is integrated performance of information, communication and technology.

UNESCO explained the importance of ICT that, Information and Communication Technology can contribute to universal access to education, equity in education, the delivery of quality learning and teaching, teachers' professional development and more efficient education management, governance and administration. UNESCO takes a holistic and comprehensive approach to promoting ICT in education. Access, inclusion and quality are among the main challenges they can address. <sup>(7)</sup>

#### **ICT Initiatives In 21<sup>st</sup> Century:**

ICT introduced some initiatives in different categories. ICT is one of the dynamic aspects for development of education system. Following table gives details of ICT initiative in 21<sup>st</sup> century.

**Table-1** ICT Initiatives in 21<sup>st</sup> Century

<b>TRENDS</b>	<b>FACTORS</b>
<b>Online Platforms</b>	<ul style="list-style-type: none"> <li>• Swayam</li> <li>• PGPathshala</li> <li>• MOOC</li> <li>• Swayam Prabha</li> </ul>
<b>Social media Platforms</b>	<ul style="list-style-type: none"> <li>• You Tube</li> <li>• Face Book</li> <li>• Whats app</li> <li>• Twitter</li> <li>• Skype</li> <li>• Blogger</li> </ul>
<b>Key Trends</b>	<ul style="list-style-type: none"> <li>• Artificial Intelligence</li> <li>• Cloud computing</li> <li>• Robot</li> </ul>
<b>Infrastructure</b>	<ul style="list-style-type: none"> <li>• Smart Phones</li> <li>• Smart Cities</li> <li>• Smart Classrooms</li> </ul>
<b>MS-Office</b>	<ul style="list-style-type: none"> <li>• MS-Word</li> <li>• MS-Excel</li> <li>• MS-PowerPoint</li> </ul>

<b>Online Learning Platforms</b>	<ul style="list-style-type: none"> <li>• Khan Academy</li> <li>• EdTech Leaders Online</li> <li>• iEARN</li> </ul>
<b>Apps</b>	<ul style="list-style-type: none"> <li>• Information oriented</li> <li>• Communication oriented</li> <li>• Technology oriented</li> </ul>

**Source:** Researchers prepare for study

### **Online Platforms:**

**Swayam** is a programme which initiated by Government of India. It is designed for achieving the three cardinal principles of Education Policy i.e. access, equity and quality. <sup>(9)</sup>

**Mooc** is a Massive Open Online Courses. It is the platform for online courses. They are openly available for mass audience and learners. <sup>(8)</sup>

### **Social Media Platforms:**

1. **You Tube:** YouTube is a video watchdog website in the United States, in which registered members can view video clips as well as upload their own videos. <sup>(24)</sup> Everyday number of videos uploaded on YouTube which are useful for student in education.
2. **Face Book:** Face book is a free social networking service on the Internet, through which its members can keep in touch with their friends, family and acquaintances. <sup>(13)</sup>
3. **Whats app:** Whats App Messenger is a famous instant messaging service running on smart phones. With this help, the audio, image, video and your location (location) can be sent through the Internet in addition to the text message on the other 'Whats App' user's Smartphone. <sup>(23)</sup>
4. **Twitter:** Twitter or Chirvir is a free social networking and micro blogging service that allows its users to send and read their updated information, called Tweets or Chirvir Sentinel. <sup>(22)</sup>
5. **Skype:** Skype is spoken software application that allows users to make voice and video calls over the Internet. <sup>(19)</sup>
6. **Blogger:** Blogger (formerly: Blogspot) is a blog hosting service provided by the Google Blogger program, and by which bloggers can create their own blog soon. <sup>(11)</sup>

### **Recent Trends:**

- **Artificial Intelligence:** In computer science, artificial intelligence (AI), sometimes called machine intelligence, is intelligence demonstrated by machines, in contrast to the natural intelligence displayed by humans and other animals. <sup>(10)</sup>
- **Cloud computing:** Cloud computing is shared pools of configurable computer system resources and higher-level services that can be rapidly provisioned with minimal management effort, often over the Internet. <sup>(12)</sup>
- **Robot:** A robot is a machine especially one programmable by a computer capable of carrying out a complex series of actions automatically. <sup>(18)</sup>

### **Infrastructure:**

- **Smart Phones:** Smart phones (contraction of smart and telephone) are a class of mobile phones and of multi-purpose mobile computing devices. <sup>(21)</sup>



- **Smart Cities:** A smart city is an urban area that uses different types of electronic data collection sensors to supply information which is used to manage assets and resources efficiently. <sup>(20)</sup>
- **Smart Classrooms:** Smart Classrooms are technology enhanced classrooms that foster opportunities for teaching and learning by integrating learning technology, such as computers, specialized software, audience response technology, assistive listening devices, networking, and audio/visual capabilities. Classroom Services leads the support, design, and planning for campus learning spaces. <sup>(3)</sup>

#### Ms-Office:

- **MS-Word:** Microsoft Word (or simply Word) is a word processor developed by Microsoft. <sup>(17)</sup>
- **MS-Excel:** Microsoft Excel is a spreadsheet developed by Microsoft for Windows, macOS, Android and iOS. It features calculation, graphing tools, pivot tables, and a macro programming language called Visual Basic for Applications. <sup>(15)</sup>
- **MS-PowerPoint:** Microsoft PowerPoint (or simply PowerPoint) is a presentation program, created by Robert Gaskins and Dennis Austin at a software company named Forethought, Inc. <sup>(16)</sup>

#### Online Learning Platforms:

- **Khan Academy:** Khan Academy is a non-profit educational organization created in 2008 by Salman Khan with the goal of creating a set of online tools that help educate students. <sup>(14)</sup>
- **EdTech Leaders Online:** Organizations with educational and training missions such as state departments of education, school districts, libraries, museums, colleges, nonprofits, and foundations are working hard to leverage innovative technology to meet the needs of students and adult learners. <sup>(4)</sup>
- **iEARN:** iEARN is a non-profit organization made up of over 30,000 schools and youth organizations in more than 140 countries. iEARN empowers teachers and young people to work together online using the Internet and other new communications technologies. Over 2,000,000 students each day are engaged in collaborative project work worldwide. <sup>(5)</sup>

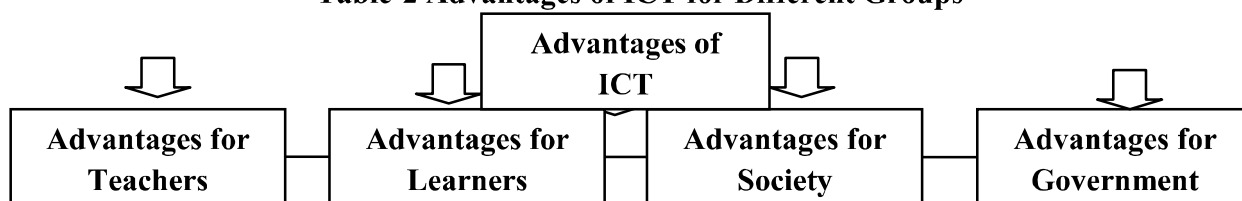
#### APPS:

- **Information oriented:** The multiple purpose TV Channel Apps, News papers apps, books, articles, journals as well as place, persons, and topics related information apps.
- **Communication oriented** the different messengers, communications, calls, video and audio Apps.
- **Technology oriented** different skills, techniques, tools related apps.

#### Advantages Of ICT In Teaching And Learning:

ICT has the advantages for different factors of education system i.e. teachers, learners, society and government. Following table gives the brief understanding of the advantages of ICT for them.

**Table-2 Advantages of ICT for Different Groups**



**Source:** Researchers prepare for study

**Advantages of ICT for Teachers:**

1. ICT has developed Different apps for skill development of professional Teachers.
2. ICT help Teachers to generate Educational E-content and resources.
3. ICT help Teachers to provide Audio and Video contents of particular subjects and references.
4. ICT help Teachers to communicate with mass audience.
5. ICT has made International Platform available for Teachers.
6. ICT has developed the communication skills among Teachers.
7. ICT has improved the learning capacity of teachers.
8. ICT has help teachers for effective presentation.
9. ICT is useful in Time saving by the use of digital tools and equipments for Teachers.
10. ICT has helped to upgrade knowledge of the Teachers.

**Advantages of ICT for Learners:**

1. ICT is help to Learners for saving the time in Learning Process.
2. ICT is help to Learners for Data collection and update knowledge.
3. ICT makes easy Availability of e-books and e-contents.
4. ICT provide various apps for skill development of the Learners.
5. ICT is help to make easy communication with Learners.
6. ICT is providing easy availability of Technology system for learners.
7. ICT has developed interest in learning process of the Learners.
8. ICT help to make innovation and research process easy for Learners.
9. ICT provide the World Sources for Learners.
10. ICT is developing creativity among students.

**Advantages of ICT for Society:**

1. ICT develops infrastructure for society.
2. ICT provides effective communication system for society.
3. ICT is providing high technology roads, banks, hospitals and other services for society.
4. ICT is help for the solutions of problems and improvement in quality of society through technology.
5. ICT is transforming the ordinary society into extraordinary by the technology.
6. ICT is educating society about resources and technology.
7. ICT has made precious impact on social environment.
8. ICT is help in social organization and management.
9. ICT is help in social awareness and security of the society.

**Advantages of ICT for Government:**

1. ICT is help to inclusive growth of the country.
2. ICT is help for infrastructural development of the country.
3. ICT is help peoples to use Government services.
4. ICT is helping for Public Transportation through technology.
5. ICT is promoting and delivering the digital government services for public through.
6. ICT is developing the effective operational management and organization.
7. ICT is help to overcome the public obstacles.
8. ICT is improving the quality of public infrastructure and services.

### **Suggestions:**

1. Provide Cyber security and awareness amongst ICT users.
2. Make awareness amongst parents about importance of the ICT in their Childs education development.
3. Be update and habitual with ICT tools and technology for Smart Work.

### **Conclusion:**

In 21st Century, ICT has benefiting to Education System. ICT is tending towards the Evaluative learning, Active learning, Collaborative learning, Creative Learning as well as Integrative learning which are helping to create the teaching-learning process more effective and efficient. Today, everyone uses ICT tools in their daily works. The use of Google maps, digital gadgets, internet connectivity, social media are becoming regular by them. This is becoming effective in teaching and learning process. ICT is creating integration between technology, communication and education system. We conclude that, ICT is a backbone of inclusive growth and development of education system. It provides the advantages to one and all in the education system. We suggest that the every parent of students need to make awareness about the use of ICT for student education. They have to give freedom of use the ICT tools for Education. Study suggested that, Indian Education System needs more successful through development of Indian Teaching and learning Process. The 'use of technology by the young generation' is a dynamic topic for discussion amongst the parents. ICT has both effects i.e. positive and negative. Parents are worried about use of technology as well as digital equipments by their Childs therefore; they are not permitting their Childs to access technology tools i.e. Smart phones. It is becoming necessary to make awareness amongst the parents and students about use of ICT for Education System. They must have to understand the importance of ICT in Childs Education and inclusive development.

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