"EMERGENCE OF DIGITAL TECHNOLOGIES IN TEACHING AND LEARNING OF ENGLISH LANGUAGE"

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Abstract:

The 21st century is the age of digitalization, in each and every corner of classroom existence of digital technology appeared. The teacher is making use of digital technology, so that teaching and learning process becomes more and more fruitful. Importance of English language is mushrooming at very high speed. The use of English language should be increased by all students of our India. So it is the duty of a teacher to afford easily available digital technology, which is used in our day to day life to increase communication in the classroom. The present research work focuses on the use and scope of digital technology in teaching and learning of English language.

Keywords: modern, Digital technologies, teaching, and learning.

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Introduction:

As the time passes the evolution takes place at very large scale. Today's educational systems have been drastically changing from the early education system. The difference can be easily identified. Gradual transmutation of the tools, techniques, approaches and the methods of English language teaching and learning are occurring, because the era is shifting from manually learning to digital learning. The transmissions of digital devices are adopted by the whole world in a very small time. Everyone is quite busy in using digital devices. So in the educational field also the use of digital technologies becomes quite important because the tendency of all students is leaning towards the use of digital gazettes. So in present research researcher is going to give focus on the use of digital devices in acquiring the knowledge of English language. Digital technologies are the combination of audio, video, and audio-video digital devices. Teachers are focusing on digital devices to make his teaching of English language concept to be more and more flexible. So it is needed for the teacher to give multi-level experiences of English language communication to the students. As our whole universe become pilgrim centre for all techno-savvy pupils. Day by day advancement in Digital technology is reaching its highest milestone. Human beings are also following these footmarks of digital technology to make his life more sophisticated. In every section of human development digital technology is used at the higher level. In this age of information and communication technology, the digital technology works as big aid in the hands of teacher and students to teach and learn the English language.

Definition of Digital:-

1)   "Expressed in discrete numerical form especially for use by a computer or other electronic device". (Digital information)

2)   "Relating to or being a device that can generate, record process, receive, transmit or display information which is represented in the discrete numerical form". (Electronic Technology)

Definition of Technology:-

1)   Page, T. (1976):- "Technology is the application of scientific knowledge to a practical purpose (problem)." (International Dictionary on Education).

Digital this word is derived from Latin word '*digitus*' which means finger or toe. The word Technology is derived from the word '*Technic*' meaning art or skill and '*logia*' meaning science or study[1]. Thus digital technology can be defined as the science of study an art or skill of discrete numbers. The digits '0' and '1'by using fingers.[1]

Mainly Digital Technology is processed by using digital signals. It is free from noise effect and easy to design the circuits e.g. computer, microprocessor etc. Signals are divided into ***Analog signals and Digital Signal***[2]. Following figure 1.1 shows the types of signal. Digital signals are discrete signals with finite distinct values. It has only two states or values '0'or '1' is called binary signal.

Analog Signals
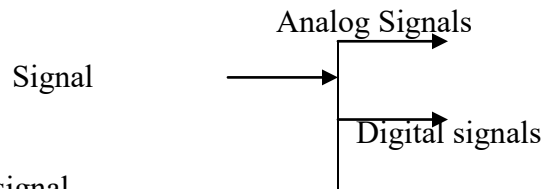
Signal

Digital signals

Figure 1.1: Types of signal

At the dawn of digital age, Computers have become a part and parcel of our day to day teaching. Digital circuits are made for the computer which is called as heart of the computers. The first communication system was telegraphy, a digital system invented by Samuel Morse in 1837.The messages were first converted to digital signals and then transmitted. The digital systems such as digital watches, music systems, and computers can process only on Digital input signals. Hence, the analog data and analog signals are first converted into digital signals and then processed further. Digital technology is used in many applications such as Computers, Telephone, Television, LCD, DVD, CD, Mobile phone, iPods, pager, Communication system, Virtual classrooms, language laboratories[3] etc. But so many institutions are unable to afford expensive digital technology in the classroom to fit the needs of their students. Due to this the competence level of the student may get reduced. Following are the merits and demerits of Digital technology.

Merits of Digital technology:-
1)   Analog system is most costly than Digital technology, it is simple and cheaper.
2)   Digital technology is adaptive to other advanced branches of data processing.

3)   Since the transmission is digital and channel encoding is used, the noise does not accumulate from the repeater to repeater in long-distance communication.

4)   A large amount of noise interference can be tolerated using the digital signal.

5)   The data is converted to the digital form with the help of the wide dynamic range.

6)   By using multiplexing the data can be transmitted over common channel e.g. Speech, video etc.

Demerits of Digital Technology:-

1)   Because of Analog to Digital conversation, the data rate becomes high hence more transmission bandwidth is required for Digital communication.

2)   Digital systems have higher bandwidth requirement.

3)   It is not available properly in rural areas.

Types of Digital Technologies:-

Following are different types of digital technologies as shown in table [4].

Sr.No.	Hardware-based technologies	Software Based technologies	Network-Based Technologies
1	C.D	Digital videos	Whats app
2	D.V.D	Digital Libraries	Instant Messanger
3	Whiteboard	S.M.S.	FaceBook
4	Pager	PPT	Email
5	iPod	Microsoft Word	Hike
6	Mobile phone	Microsoft Excel	Youtube
7	Notebook		Blogs
8	Walkman		Twitter
9	Laptop		Skype
10	Computer		v.A.Conferencing
11	Language Laboratory		Computer Conferencing
12			Satellite

Table 1.1 : Types of digital technlogies

Uses of digital technology in teaching and learning of English language:-

1) Digital technological devices are used for giving live experiences of English language learning.

2) Digital technological devices are helpful in saving the time of teacher to explain the content in the classroom.

3) Ample practice of Listening, Speaking, Reading, Writing and Communication can be done with help of Digital technological devices.

4) Easy to handle the digital devices.

5) The teacher can update his knowledge by using the internet.

6) Instead of depending on the traditional way of teaching teacher can bring variation in his teaching by using different digital devices.

Conclusion:-

So it is seen from above information that Digital technology is arising as the important tool in the hands of teachers to do a lot of changes in the teaching and learning of English language. So the importance of the new concept of '*Digital content cum methodology*' will emerge as a powerful technology for serving the needs of students and teachers. Depending upon the budget position of the educational institute, the students, and the teachers can afford such type of easy technology in the classroom to make his/her teaching and learning more attractive and effective.

Reference:-

1) Amitabh Bhattacharya, Digital communication. (14 print). (New Delhi: McGraw Hill publication, 2013)pp.1-30.

2) Dr.j.S.Chitode, Digital communication. (Pune: Technical publication, 2010) pp.2-50.

3) J.C.Aggarwal, Essentials of Educational technology innovation in teaching and learning. (2nd ed.). (New Delhi: Vikas publishers, 2008).

4) idbi pp.1-80.

5) Tokheim, Digital Electronics. (Singapur: McGraw Hill Publication, 1994) pp.1-13.