An International Peer Reviewed & Referred

SCHOLARLY RESEARCH JOURNAL FOR INTERDISCIPLINARY STUDIES



USES OF ADVANCE ICT IN EDUCATIONAL RESEARCH

Mrs. Amrita Kulthe

(M.Sc., B.Ed., M.Ed. pursuing) PRT Teacher, Pune, India

Abstract

Information and communication technologies (ICT) have become commonplace entities in all aspects of life. Across the past twenty years the use of ICT has fundamentally changed the practices and procedures of nearly all forms of endeavor within business and governance. Education is a very socially oriented activity and quality education has traditionally been associated with strong teachers having high degrees of personal contact with learners. The use of ICT in education lends itself to more student-centered learning settings. But with the world moving rapidly into digital media and information, the role of ICT in education is becoming more and more important and this importance will continue to grow and develop in the 21st century. In this paper, a literature review regarding the use of ICTs in education was provided. Effective use of ICT for Educational Research, along with ICT use in the teaching learning process; quality and accessibility of educational research; learning motivation. Learning environment. Besides, an overview of the ICT and scholastic performance. The purpose of this paper aims to bring together the findings and key points from a review of significant part of the available literature associated with ICTs for Education and ICTs in Educational research. This review set out to identify and evaluate relevant strategies in national and international research and initiatives related to measuring and demonstrating the effective use of ICT for education with regard to the teaching learning process; ICT and quality and accessibility of education; ICT and learning motivation, ICT and learning environment, and ICT to enhance the scholastic performance.



Scholarly Research Journal's is licensed Based on a work at www.srjis.com

Introduction

Technology integration can be one of the most challenging topics to find quality research on. The term itself is a broad umbrella for numerous practices that may have little in common with each other. In addition, technology tools change rapidly, and outcomes can vary depending on implementation. Technology integration review explores some of the vast body of Educational research out there and helps you navigate useful results. Information and communications technologies (ICT) are a diverse set of technological tools and resources used to communicate, and to create, disseminate, store, and manage information in Educational Research. Communication and information are at the very heart of the Educational Process, consequently ICT-use in education has a long history. ICT has played an educational role in formal and non-formal settings, in programs provided by governmental agencies, public and private educational institutions, for-profit corporations and non-profit groups, and secular and religious

communities.

Background

1-Read Cube

This is a desktop application that offers a new way to organize your research literature. You can create your article library instantly, import PDFs and download related articles. It also recommends relevant articles to your research automatically.

2- Shelfster

This is a great tool for researchers. It helps them capture information and create useful documents. You can also organize your data into Shelfster projects by dragging and dropping your saved links.

3- InstaGrok

This is a great search service. It allows users to search a topic and instantly get lists of facts on it such as links to further information, videos, images, and even quizzes.

4- Academis.edu

This is where you can find research papers on different subjects. You can also share yours and connect with other researchers from all around the world.

5- UN Data

This is a website that gathers statistical databases from different United Nations agencies and puts it handy for users to access from a single entry point so that anyone can research and download the date that they need without going to individual websites.

6- Zoho

I have already reviewed this great website HERE. It provides a number of research tools such as presentation tools, office tools and many more and all for free.

7- Diigo

I think most of you are familiar with this tool. Diigo is a must for every educator, it provides a safe platform where you can connect with other teachers and educators and also organize your findings online.

8- Bundlenut

This tool allows users to create bundles where to add links and data they find online. Bundle also lets users share their bundles with others.

9- How to Do Research

This is a great map I have already shared before. It is provided by the folks at Kentucky Virtual Library. It features important research processes and walks students through each one of them. Check it out it is great.

10- Think Binder

This is another great website for students. It lets students create and join different study groups where they can share and exchange links, draw on a whiteboard and share files.

11- Bookmarking Websites

this is a list of some of the best bookmarking websites for teachers and students. You can use these tools to highlight, annotate and bookmark important URLs you want to work on in your research.

Statement Of The Aim: -The Uses of Advance ICT in Educational Research.

Need And Importance Of The Study

- 1. New modalities of teaching, learning and research• Accessibility of local research content• A differently skilled generation of scholars• Impact of ICT on global higher education and research• Alignment of ICT strategy with institutional strategy
- 2. Value of Openness (open content, data, and resources), Transparency, Easy Access to Data and Information Massively open online courses are being widely explored as alternatives and supplements to traditional university courses Workforce demands skills from graduates that are more often acquired from informal learning experiences than in universities Interest in using new sources of data for personalizing the learning experience and for performance measurement Role of educators continues to change due to the vast resources that are accessible to students via the Internet Education paradigms are shifting to include online learning, hybrid learning, and collaborative models Key Trends in Higher Education.
- 3. Staff training lags behind while digital media literacy continues its rises a key skill in every discipline and profession Emergence of new scholarly forms of authoring, publishing, and researching outpace sufficient and scalable modes of assessment Too often it is education's own processes and practices that limit broader uptake of new technologies.
- 4. ICTs in Higher Education Areas ResearchTeaching Administration
- 5. Open Research, Open Educational Resources, Open Access publishing, OpenEducation Based on digital content, which can include debates, video, text, audio, forums etcResources are shared via a global network, both technical and social

• Definitions Of Important Terms

Advanced ICT:-ICT is technology that supports activities involving information. Such activities include gathering, processing, storing and presenting data. Increasingly these activities also involve collaboration and communication.

Information -Communications –Technology: A good way to think about ICT is to consider all the uses of digital technology that already exist to help individuals, businesses and organizations use information. ICT covers any product that will store, retrieve, manipulate, transmit or receive information electronically in a digital form. For example, personal computers, digital television, email, robots. Information and communication technology (ICT) .Information and Communication Technology or ICT, is defined as the combination of informatics technology with other, related technologies, specifically communication technology.

Educational Research

A cyclical process of steps that typically begins with identifying a research problem or issue of study. It then involves reviewing the literature, specifying a purpose for the study, collecting and analyzing data, and forming an interpretation of information. This process culminates in a report, disseminated to audiences, which is evaluated and used in the educational community. (Creswell, 2002)

• Objectiives

To effectively use ICT tools, software applications and digital resources

To integrate ICT into teaching-learning and educational research

To acquire, organize and create her own digital resources for educational research

To participate in the activities of educational research

To participate in the research methodology and selection of ICT resources

To practice safe, ethical and legal ways of using ICT

To use of advance ICT for making research processes

- Scope, Limitations And Delimitations
- Informatics education and digital literacy.
- The integration of digital technologies in educational research.
- The professional development of teachers.
- The provision of pre-service and in-service teacher education to enable educators to use and contribute to the development of digital educational resources, including professional learning networks.
- Identification of research needs and topics in the field of education
- Improvement of research approaches and methods
- Production of synthesis of research on major topics in the field
- Dissemination of research, in partnership with educational research communities.
- Research Methodology
- Method of research: Qualitative Research Method
- Tools for data collection: E-tools for Data collection
- Conclusions And Discussions

Advance ICTs for education refers to the development of information and communications technology specifically for educational research, while the ICTs in educational research the adoption of general components of information and communication technologies in the teaching learning process.

The adoption and use of Advance ICTs in educational research have a positive impact on teaching, learning, and research itself. Advance ICT can affect the delivery of educational research and enable wider access to the same. In addition, it will increase flexibility so that researcher can access the education regardless of time and geographical barriers. It can influence the way students are taught and how they learn. It would provide the rich environment and motivation for educational research which seems to have a profound impact on the process of learning in education by offering new possibilities for learners and teachers and researcher. These possibilities can have an impact on researcher performance and achievement. Similarly wider availability of best practices and best material in educational research, which can be shared by means of advance ICT, can foster better achievement of researcher.

References

http://www.nyu.edu/classes/keefer/waoe/amins.pdf

http://www.educatorstechnology.com/2012/06/free-search-tools-every-educator-need.html www.tscermumbai.in/resources%20_paper_%204/IV.1_information_and_communication_technology_.pdf

http://www.ncert.nic.in/announcements/notices/pdf_files/ICT%20Curriculuma.pdf http://www.ifip.org/bulletin/bulltcs/tc3_aim.htm