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RESEARCH ARTICLE

UTILITY OF ICT IN TEACHING AND LEARNING

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Abstract

With the changing situation globally, utility of ICT tools in teaching and learning method has modified the entire shape of Education process. This is not now limited inside aspect the classrooms boundaries. ICTs are making critical variations inside aspect the teaching methods and strategies university college students have become to know. This examine explains with fashions and shows the way to combine with the conventional training gadget with ICT as it's miles the want of the hour, it ought to and could should undertake and work with it in winning and future conditions like Covid19.

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Introduction:-

The world we stay in is a constant, consequently extrude will happen. Look what took place with Covid-19...! [1] What is nowadays will now no longer be there tomorrow! We all have visible the modifications which constitute a critical time in our lives. The nature of those modifications has been technical. This modern occasion has modified the sector and the brand new generation has begin- the net mastering to all. In the converting surroundings, nowadays we cannot do these paintings most effective with the vintage conventional technique of training machine; we additionally must make suitable use of the brand new cutting-edge techniques and choice to examine them. Due to converting scenario, like cutting-edge technology, globalization, new discoveries and research- traits and Covid-19 too, have compelled us to preserve our lifestyles nowadays and it has come to be important nowadays. We must discover the brand new to be had alternates and apprehend the significance of ICT Within side the converting surroundings and must examine it, we haven't any different alternative apart from this. ICT in training has the electricity to convert teaching. However, this electricity won't effortlessly be realized, as Dawes underlined while he says, "issues get up while instructors are anticipated to put into effect modifications in what may be detrimental Circumstances" [2] With maximum elements of the sector is in lockdown because of the pandemic, domestic is the most effective area to paintings now. The college students had been the maximum affected. Their studies, classes, and the entire training recurring were given ruined and ended. So one of the high-quality answers is to apply ICT to examine on-line or offline from domestic and guide college students now no longer to avert their studies...however to benefit a brand new mode, know-how and concept approximately new way, technique or technology. We must apprehend the significance and want of ICT and must combine all of the recourses of it with all training pedagogy in order to triumph over and the high-quality result. The essential objective of this study is to apprehend the critical and its implementation and to integrate ICT and ICTs within the modern training machine in this converting scenario. This study is descriptive and primarily based totally on Two Models. This focuses specifically on ICT and ICTs in teaching/learning process.

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Research Questions:-**Key Questions:-**

What are the importance and affects of ICT?
What model is usually recommended for ICT usage?
What are the inhibiting factors?

How to Integrate ICT in Education Successfully?**The Technology Benefits in Education****What ICT means?**

The term ICT is any technology that is involved with data and communication. Since data can occur, consisting of voice, video, text, and pictures, we reflect on consideration on mobile phones, digital cameras, and video cameras at the same time as examining what technology is available to offer various styles of data, and often a mixture of all of those.[2] Today, information and communication era are all one thing, so the technology repertory grows to encompass computer ICT's structures and computer-related products, together with email, MMS, and distinctive styles of communication. [3].

Importance in Education:-

As ICT users in state-of-the-art culture, all of us aspire to the identical goal: to stay a linked existence. As a result, ICT has end up a way of life preference for the significant majority of people. Furthermore, this way of life preference is changing the manner we communicate, growing the charge of shopping, and changing the manner we interact and accumulate data [4]

ICT has infiltrated and impacted many sides of our lifestyles to the factor in which we now stay in a era-dominated, consumer-pushed environment [5]. Regardless of ways we sense approximately it, it's far undeniably a good sized a part of our lives and is right here to stay.

The following are key factors to preserve in thoughts at the same time as thinking about the function of ICT in schooling:

1. ICT promotes inclusion:-

The benefits of ICT in schooling consist of the cap potential for all scholars within side the lecture room to examine from the identical curriculum substances. Students with unique wishes are now no longer at a drawback due to the fact they have got get admission to important substances and may use particular ICT tools to fulfil their personal academic needs. Despite this, it increases extra worries about the "virtual divide" and making sure that those who are much less rich have gets admission to ICT Tools and resources.

2. Facilitating higher-order questioning abilities:-

Evaluating, planning, monitoring, and reflecting are only a few of the important thing abilities for the twenty-first century. Effective use of ICT in schooling necessitates abilities which include explaining and justifying the usage of ICT within side the advent of problem-fixing solutions. Students have to discuss, test, and speculate at the numerous strategies they will employ.

3. E-learning or Virtual Classrooms:-

The use of ICT in schooling allows university college students and teachers to check in new methods. With several remarkable sports taking place in our lives, e-studying or on-line reading is becoming an increasing number of greater popular. This now no longer only allows schools to make sure that students have get right of entry to curriculum materials even as inside facet the lecture room, but additionally lets in them to make certain that scholars out of doors the lecture room, which includes at domestic or in hospitals, can examine.

4. ICT use improves ICT literacy and capability:-

21st-century abilities which might be excellent advanced whilst ICT is included into difficulty mastering. Providing significant sports rooted in functional difficulty-associated contexts is the best manner to enhance ICT capability.

5. The utilization of ICT promotes mastering: -

The needs of society for brand spanking new technology have now no longer neglected approximately kids and their requirements. Technology delights kids, encouraging and motivating them to examine within side the lecture room.

6. ICT in education promotes scholar engagement and know-how retention:-

Students end up greater worried of their paintings whilst ICT is included into lessons. This is because of the truth that era lets in for plenty methods to make it greater enticing and interesting to educate the identical topics in unique methods. It is expected that as a final results in their better engagement, people can be capable of hold know-how greater successfully and efficiently.

ICTs will keep playing a more and more important function in our lives as they grow to be extra included. It will hold to conform and change due to the fact we, as consumers, revel in having options. We revel in utilizing ICT for personal improvement, creativity, joy, consumption, and money [5]

Impotence of ICT for Students:-

Students' Importance Using Information and Communication Technology

Students should interact with ICT so as to:

1. Learn 21st-century skills and enhance their ICT literacy and capability.
2. Increases their academic achievement.
3. Gets them equipped for an included society managed via way of means of technological innovations.
4. To train them the way to use facts and communication technology (ICT) as a useful resource for lifelong learning.

You will observe a better degree of involvement in case you positioned a variety of attempt into your planning, and this may make contributions to the improvement of 21st-century capabilities like state-of-the-art thinking, innovative problem-solving, and cooperation.

Technology integration within side the school room is an educational choice made. The teacher, and need to continually be accomplished with collaboration and thought. And this is simply proven with those to Models, it's simply a concept how ICT can combined with the traditional approach of training as a device to overcome the modern all destiny possibilities and challenges.[6]

Two Models Theories:-

ICT with the integration of training pedagogy will performs a totally vital function this may be illustrated via way of means of those fashions that's been depicted on this study. In Model No.1, indicates the body paintings of integration or knitting ICT with Education machine then it show to be a solution to the all going-on and modern circumstance.

Model 1:-

Teachers has to play a very crucial part as he turned into at once contain and touch with the students, he understood every and each aspect approximately the training device and the students with the aid of using enjoy and know-how and this while integrated with the ICT tools as humanware, software program and hardware in easy term if trainer adopt ICT willingness, with the high-quality mind-set and method through way of manner of mastering and developing to reinforce his personal capacity and best of teaching and then this supply to students, then the end result will defiantly high-quality, higher and could defiantly extrude the entire training device, however this want to be progressed extra talent and improvement with reference to instructors high-quality mind-set, willingness, notion and motivation factor of view with ICTs techniques, tools and strategies..

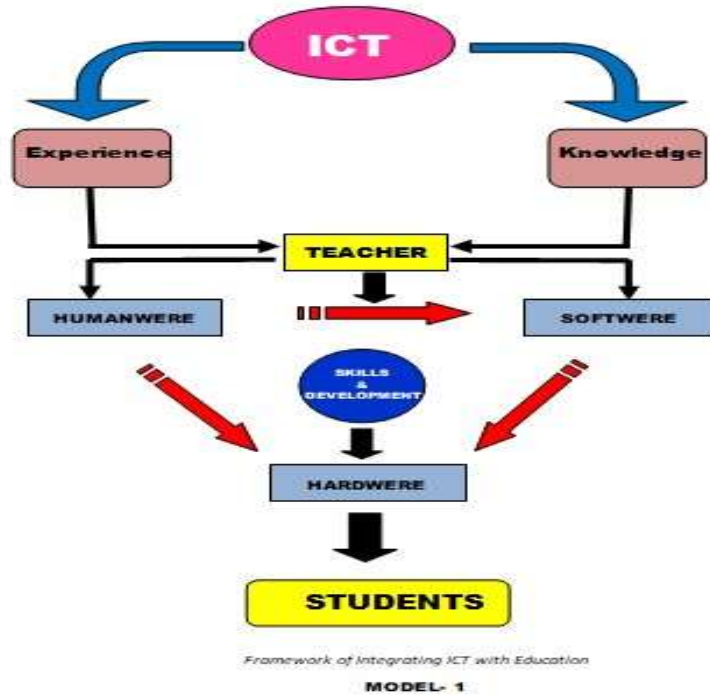
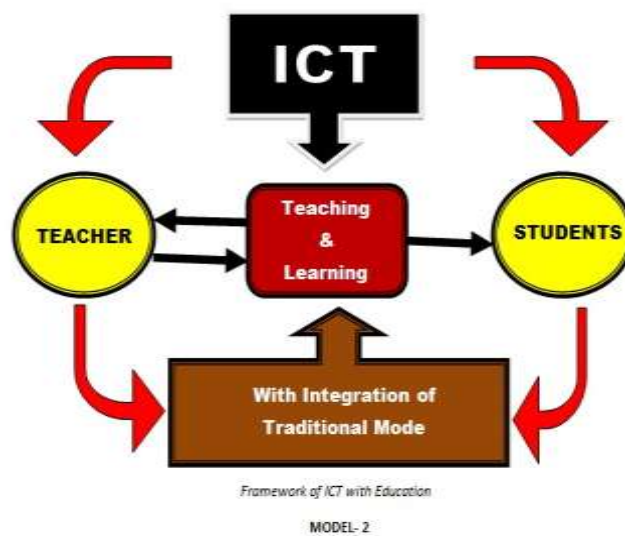


Fig 1:- As this model advocate that after a trainer with the aid of using his instructional enjoy and know-how encompass or combine the entire morden multi model ICT tools and technology with the conventional strategies of coaching strategies and divert the equal to college students with the aid of using and with creativity, passion, gaining knowledge of and teaching method with motivating them in over all development of their mind-set, willingness and motivate closer to their studies, then new change and reforms will take place and it’s a brand new revolution to the entire training device which ends up in first-rate boom and improvement for each trainer and college students and could increase a brand new fashion in training world. The use of facts and verbal exchange technology (ICT) creates a powerful mastering environment and it transforms the mastering and training way in which university college students address know-how in an active, self directed and high-quality manner [7].

Model 2:-



In this model focus interest on manner method in the direction of teacher and student with ICT In which, with the enjoy and understanding stronger with the aid of using ICT Technologies with the trainer studying method and

college students studying method thru ICT and with the combination of traditional and present day pedagogical capabilities to collect the excellent common and professional development and growth of every in their desire goals with express their willingness, attitude, ability and motivating them for the exceptional development of their standard expert improvement and growth, that is illustrated in Fig 2. It's miles not unusual place for instructors to be powerful in adapting with adjustments and accepting new era. Hence, their expert attitudes will help them in making use of the era as a way to enhance the extremely good of their coaching and studying [8] The Inhibiting Factors affects the ICT integration With a few obstacle elements it's miles essential that first of all a trainer ought to have an attitude, willingness, ability, interactive, flexible, convince, and influenced in the direction of the ICT methods beside there are direct and oblique obstacles or elements like: poor infrastructure, shortage of trainer competence, confidence, incentive, beliefs, imposed curriculum, loss of proper network, political instability, thoughts drain, sporadic electricity, poor transportation, loss of public interest and participation, poor faculty leadership, technological illiteracy and lack of pedagogical skills..[9] However ought to overcome to those hurdles and obstacles due to the fact there's no alternative subsequent to be had so we must undertake the all technological factors of ICT with the entire education system. Additionally, ICT offers proper conditions and actual lifestyles studying environment. Furthermore, ICT offers real conditions and real life reading environment. [10]

Conclusion:-

Today, teachers are challenged to now not best integrate technology into conventional factors of literacy teaching (i.e., e book studying and paper-and-pencil writing), but moreover to engage university, college students in growing technological literacy's, (e.g., online studying and writing) increase and development, challenges, opportunities, threads like Covid19 in technological aspects. [11] teacher are as a minimum important factors of literacy-technology integration: first to the use of technology to educate more efficiently and decorate the studying of skills and strategies that currently make up a strong analyzing/language arts curriculum, and secondly efficiently coaching and decorate the getting to know of capabilities and techniques that presently make up a strong studying/language arts curriculum, and secondly efficiently teaching and enhancing the analyzing of skills and strategies that make up the sturdy analyzing/language arts curriculum of the destiny. It is ultimately crucial to recognize the jobs of ICT in promoting educational changes. [12] The integration of the complete Education system with the ICT is the want of the hour it must and could need to undertake or paintings with it as the approaching challenges, opportunities, hazard and hurdles like Covid19 pandemic within side the destiny and feature an stories with those within side the past, it's miles predominant needful to make higher use of the ICT device within side the destiny and for the future.

Prefrences:-

1. **ICTE Solutions Australia**, <https://www.ICTesolutions.com.au/blog/why-schools-should-invest-in-ICT/>
2. Simin Ghavifekr, Teaching and Learning with ICT Tools: Issues and Challenges from Teachers' Perceptions, Volume 4, Issue 2, 2001
3. Glenn Finger, Transforming Learning with ICT : Making IT Happen, 2007
4. Sheringham, December 2008/January 2009
5. Alexei Semenov, 2005. "The Quality of the Computerization of School Education," Voprosy obrazovaniya / Educational Studies Moscow, National Research University Higher School of Economics, issue 3, pages 248-270.
6. Berhane Aradom Tedla, International Journal for e-Learning Security (IJeLS), Volume 2, Issue 2, September 2012
7. Igwe Sylvester Agbo, Factors Influencing the Use of Information and Communication Technology (ICT) in Teaching and Learning Computer Studies in Ohaukwu Local Government Area of Ebonyi State-Nigeria, Vol.6, No.7, 2015.
8. JIMMI COPRIADY, SELF- MOTIVATION AS A MEDIATOR FOR TEACHERS' READINESS IN APPLYING ICT IN TEACHING AND LEARNING, Volume 13 issue 4, October 2014,
9. Simin Ghavifekr, Teaching and Learning with ICT Tools: Issues and Challenges from Teachers' Perceptions, Volume 4, Issue 2.
10. D. Çakıcı, The use of ICT in teaching English as a foreign language, Special Issue 2016-IV;73-77, November, 2016
11. Leu, Mallette, Karchmer, & Kara-Soteriou, Innovative Approaches to Literacy Education: Using the Internet to Support New Literacies 2005).
12. NNAEKWE, UCHENNA KINGSLEY, The concept and application of ICT Teaching and learning process.