A Survey on ICT impact on Education System

Dr.R.Kamatchi[1] Nityashree Nadar[2]

[1]Amity School of Engineering and Technology,
rkamatchiiyer@gmail.com
[2]S.I.W.S Smt Thirumalai college of science,
nityashreenadar@yahoo.co.in

Abstract: Teaching aids are general and new carry out in today's scenario. Learning is presently restricted to classrooms as well has broken the obstructions crosswise over outer edge. This has been made conceivable by the impact of ICT (Information and Communication Technology). ICT can be intended for the education sector. Now a day's education can be done through distance, online and part time. There are boundless uses of ICT in this present reality. In this paper accentuation is on the education field. The conventional non - formal system of education includes activities like Personal Contact Programmers, admission, during the time of exam the ICT play important role by giving a lot of benefits to teachers, students, parents and Universities. ICT can assume incredible part in formal and non formal types of instruction. The paper looks at review on certain vital issues related with the successful execution of ICTs in all levels of training and gives proposals to address certain difficulties that would help in the usage of ICTs in instruction and all the while expanding Quality of education. Finally the paper comes out with evidence that the majority of the countries under thought hold an enormous potential for better effectiveness in ICT and also for civilizing their educational outputs.

Keywords*: ICT, traditional learning, exploratory analysis*

I.   INTRODUCTION

India education system began with traditional methods for teaching in particular Gurukuls, shaping a teacher, student interface with the support of blackboard helped educating. Over the timeframe, this has taken numerous spaces from blackboard to the whiteboard educating and now we broadly discuss ICT helped teaching. Information and Communication Technology (ICT) is an electronic method for storing, capturing, processing, communicating information. This has turned out to be the basic type of educating in today's situation since it gives simplicity to the teacher and the student to store, recover and control the data. Thusly, this has been empowering dynamic learning and self obligation of learning with the utilization of ICT educating helps [1]. It has made conceivable to achieve the student in every part of the world.

Teaching can along these lines take a state of Computer assist learning i.e. distance learning, projectors, videoconferencing and even mobiles. This innovation has the capacity of connecting with the students in subjective exercises as well as upgrades their psychological skills1 (Valerie Rhodes, Margaret Cox, Mary Webb, Chris Abbott, and Tony Beauchamp) ICT incorporates telephone, internet, computers, radio and the extra audio visual equipments [2]. As of late, it has been watched that the ICT teaching aids are not simply another medium for the transmission of knowledge however have changed the connection among teacher or trainer and the learner. It requires novel abilities and skills, capabilities and demeanors amongst those managers, planners, trainers and teachers who are departing to develop materials and design, and bolster learners utilizing these guides. So, the advancement of innovative practices and generation of new skills in the ICT are quick receiving to be key issues for trainer and teacher training [3]. This paper describes the detail survey on the Information and Communication Technology. Section 1 demonstrates the introduction towards the survey, and section 2 explains the related work of the Information and Communication system flows towards findings. Section 4 explains the existing tools of the ICT. At final research gap and conclusion was explained in Section 6.

OBJECTIVE OF STUDY
The main objective for these study is to recognize different sorts of ICT teaching established in market and determine the role, efficiency and competencies of these practices. The enhancing the ICT practices are characterized as initiatives, activities or projects that have tangible impact on teaching skills and humanizing between learner and trainer. The aim of the work is fulfilled by considering the following research objectives

- Presents the effect evaluation of such practices (concerning towards scalability and technology transfer)
- Discovering the hierarchical backing in advancing Innovative practices/ ICT practices
- Identify the size of yield.

- Identifying the competency, role and effectiveness of such practices

II. RELATED WORK

U. Emmanuel et.al [4] work presents on the performance analysis of ICT on the major Nigeria universities in the past 10 years. The study also shown development stages of the ICT and also serious look at the emergence of the ICT .The work outcomes how the ICT education is growing significantly all over the world. Shipra .S et.al [5] presents the research work in finding the impact of ICT teaching in different organizations .The author conducted tests by collecting the data from both primary as well as secondary education. The works also investigates the reimbursement of ICT tools for individual and organizational growth. Finally it out comes that ICT teaching improves the quality of education .H. M. Raboca et .al [6] author talks about the learner perceptions concerning towards the ICT impact in the Educational procedure. The author review that the using the ICT tools the performance of the school also be improved in two ways namely activities for teaching or explanation and also in individual academic training activities. Sharmila Devi et.al[7]work examine important problems related to ICT implementation in all the levels of the education in India .the work comes out with an addressing the challenges, which will be more effective for the implementation of ICT education with more accuracy and good in quality .Aleksander .A et.al [8] presents the review on the efficiency of the previous ICT education in the research work .And also it out comes the different conceptual and issues in the method which is related to the performance .Finally the analysis out comes with an evidence in the increasing the efficiency of the education with increase in ICT. Ulka Toro et.al [9] work presents the good Literature review in the period of 2004-2011in different countries .The paper also review the benefits and issues of the ICT education during the period .the outcome throughout the findings which has to be addressed in the policy of the ICT education. M. Wasif et.al [10] talks about accessibility and the usage of ICT improves the effectiveness of education .at the end of the work shows that ICT is supportive to learning new skills as well as latest technologies and also help full in organizing their assignments and academic projects. Nitika et.al [11] reports measurable and demonstrated impacts of ICT education during the learning and training .the research outcomes the significant issues such as return on investment, effectiveness, and the cost. Adel .B et.al [12] examines the relationship among the use of ICT and performance of the education in the higher education. The work also aims to focuses on the indirect effects and their explanatory and also advocates suggestion, that ICT uses require a change in the organization of higher education. Syed .Noor-Ul-Amin et.al [13] presents the significant review to get the key points associated with the ICT education. These reviews make out uses of ICT learning process in teaching motivating the students, learning environment, enhance the scholastic performance. Ting. S et.al [14] study presents positive effects of the ICT and also done the in-depth longitudinal studies towards the impact of ICT on teaching and learning in the future.

III. FINDINGS

From the above examination, it is clear that utilization of ICT for education is a flat movement that requires components from various verticals to meet up to empower important learning encounters for the students [9]. The accompanying major aspects should be tended to in a plan for the ICT in edification:

1Digital Resources / Content
2) Building a capacity
3) Evaluation and Monitoring Framework
4) ICT for Management education
5) Implementation Plans
6) Financial Allocations
7) Supporting for the Political and Administrative
8) ICT for Community Demand
9) Adapting an adjustment in learning Processes
10) Development of staff and Training Programs

IV. ICT TOOLS

There are different ICT apparatuses accessible which can be used for the information creation and dispersal in the current world. Tools incorporate Radio, tablets, laptop, Computer, T.V, Internet, Mobile phone, and numerous other equipment and software applications. Certain ICT apparatuses like PCs, mobile phones, laptops, PDAs, have their own particular ramifications in Education[7]. These gadgets can be utilized as a part of bestowing instruction and preparing for students and teachers. Large portions of the ICT devices are greatly advertised yet have not given productive results till now. Utilization of radio for pedagogical practices has been all that much prevalent in past is still being used in India by IGNOU. In any case, One-to-numerous show advancements like radio and TV are seen as less _revolutionary' ICTs in training, as their use is seen as strengthening of conventional instructor-centric learning models, not at all like computers, which numerous see as essential devices in cultivating more learner-centric instructional models [15]. Effective ICT activities meet three entwined goals: accessibility, demand and access,[16]. Educational ICT devices are not for making Teachers expert ICT abilities themselves, but rather to make teachers make a more viable learning environment by means of ICT. Teachers can use ICT devices to get profits by utilizing these apparatuses as a part of the zones of substance, educational programs, guideline, and evaluation. ICTs incorporate mobile telephony, fixed-line telephony, radio, newspapers, radio trucking, television, computer, very small aperture terminal (VSAT computer, and web must be available to rural public according to their interest. School youngsters utilizing different ICT apparatuses are appeared in Figure 1
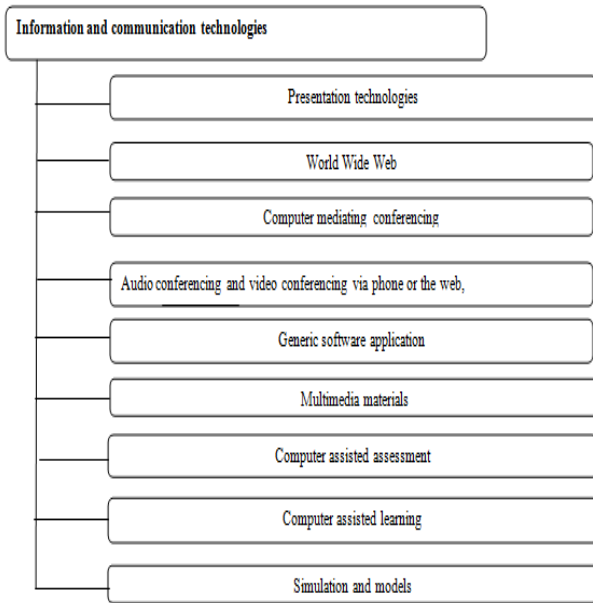
Figure1: ICT apparatus

V.   BENEFITS AND CHALLENGES OF ICT

ICT gives student bolster administrations, for example, digitally recorded classroom material, course outlines, discussion groups, lecture notes, lab manuals and lab assignments, links to course specific websites, live lectures for later viewing and re-viewing, supplementary readings, online tutorials, online tutorials[9]. Virtual libraries are a specific help to students at the same time as they cut down on expenses of gaining costly course books, reference material and journals. Instruments are accessible on the Internet to help both students and teachers to oversee composing assignments to identify and dodge the pitfalls of copyright and plagiarism infringement. ICT enhance the quality and the amount of instructive procurement. Presenting ICT frameworks for educating in creating nations needs to consider about high open door expense of establishment, interests in equipment and programming's and in human abilities and training. Innovation encouraged learning has turned out to be very costly in every aspect of thought, framework, course advancement and course delivery.

VI.   RESEARCH METHODOLOGY

The exploratory investigation of students discernments with respect to the effect of ICT's in the instructive procedure was directed in light of a multidimensional point of view. In such manner the study calls attention to the accompanying angles:
1. Student's observation with respect to the convenience of ICT devices in training.
- The level of ICT instruments value was broke down as far as the accompanying measurements

- The level of professional training and school performances through ICT tools
- The facilitation quantity of the learning procedure using ICT tools
- The level of understanding and attractiveness of showing utilizing ICT tools

2. Students observation with respect to the principle instructive exercises that loan themselves to utilize ICT devices, for example, those generally utilized ICT devices as a part of training
3. Students discernment in regards to the fundamental obstructions identified with the utilization of ICT instruments in the instructive procedure and the recurrence of utilizing these tools.

VII.   ANALYSIS AND DATA PROCESSING

From the point of view of enhancing school execution and training using ICT tools, student impression of ICT is, quite confusing, in our opinion. In such manner, in spite of the fact that the dominant part of respondents feel that the utilization of ICT tools add to enhanced school execution and training, a very high rate accepts as shown in Fig. 2.
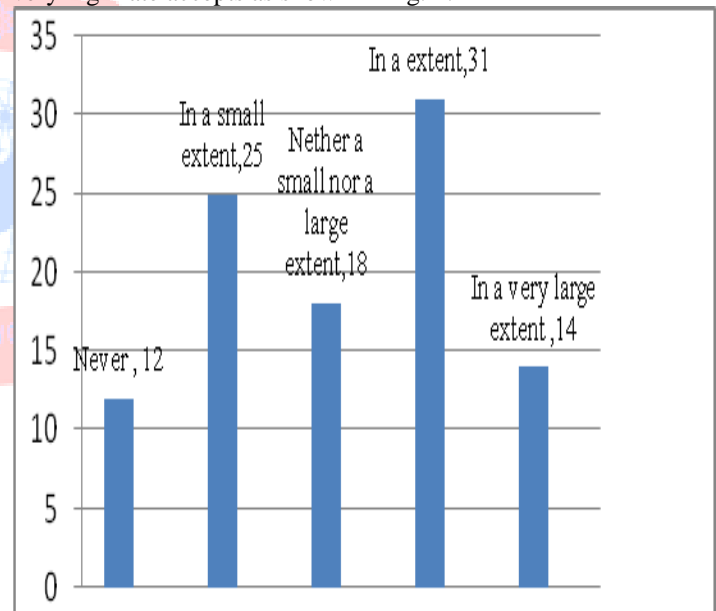

Fig 2: the extent of level in professional training and school performances through ICT tools

Figure 2 uncovers the way that students consider the utilization of ICT as an apparatus for expenses free time, and less to improve school execution and expert training[6] .The conceivable reasons can below learning with respect to the use of training stages and absence of data in regards to the potential outcomes of enhancing school performance and the professional training using ICT. Likewise, students have a tendency to spend numerous hours on the web utilizing entertainment applications and programming, giving them better IT abilities and favorable position in the professional insertion on the work market. From the perspective of the

level of help that the utilization of ICT devices has in the learning process (second measurement), and here things are exceptionally confounding. In such manner, albeit a portion of the respondents feel that the utilization of ICT encourages learning, however most trust that the utilization of ICT devices has no obvious level of assistance Fig .3
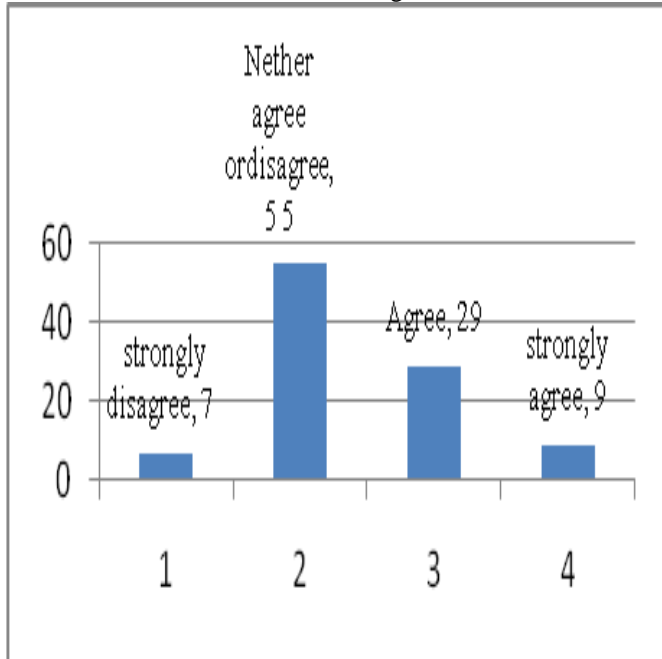

Fig. 3: The facilitation quantity of the learning procedure using ICT tools

In such manner, the respondents considered that the utilization of ICT in courses prompts more elevated amounts of appealing quality and simplicity of comprehension the learning process (Figure 4).

VIII.   RESEARCH GAP

Over the past decade, Information and Communication Technology in the education system has rapidly become a widespread for addressing the problem of poor performance in the education system which as discussed in the related work and the. The Information and Communication Technology is the core of the emerging next-generation education system. . Besides, research on Information and Communication Technology is growing rapidly in recent years. New interdisciplinary technologies that integrate vision, on Information and Communication Technology. This Call for Papers seeks for ongoing research on techniques and collects cutting-edge research on issues towards Information and Communication Technology with respect to technological, behavioral, legal and cultural aspects in Information and Communication Technology with high-quality system.

With respect to third measurement contemplated, to be specific .the level of understanding and attractiveness of showing utilizing ICT tools are clearer. In such manner, the respondents considered that the utilization of ICT in courses prompts more elevated amounts of attractiveness and simplicity of comprehension the learning process Fig 4 regarding the third measurement thought about, specifically the level of appeal and straightforwardness of understanding of showing utilizing ICT devices things are clearer.
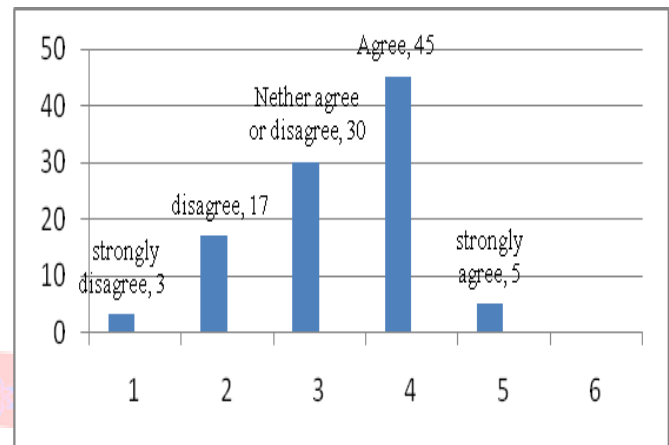

Fig 4: The level of understanding and attractiveness of showing utilizing ICT tools

IX.   CONCLUSION

Quality in education system through ICT and its mindfulness between stakeholders force have optimistic effect on the public. ICT can be useful in quality and gauges of implementing so as to train it in different phases of education. ICT can be utilized in both formal and Non formal sorts of instruction and would in the long run make the students employable and socially helpful part of the public. By utilizing ICT in the teacher training can spare a considerable measure of cash of the Government. Also a considerable measure of subjective change can be seen as asset persons for the preparation can be best of the world. By utilizing ICT in organization can help in taking care of the issue of Absenteeism of teachers and students. Great quality substance is one of the real issues and straightforwardly influences the gauges of instruction and quality. By conquering the specific difficulties included during the time spent training can help a mass in this side. Definitively a mass of value change is conceivable after cautious and arranged execution of ICT in instruction by different followers.

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