



The research paper on “teaching and learning process through advance technology”: A conceptual study

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Abstract

The teaching and learning process is very important in schools and colleges. The best possible tools and techniques should be used to teach the subjects to the students and teachers should use advance technology to teach the scientific and social science subjects. The learners are generally confused in initial stage of learning any topic. if properly taught he gets an interest in the subject he learns on his own. The process of learning takes place with various individual and group factors. The use of computers, mobiles, Internet and many times TV channels is making this process very widely accepted and it requires lot of efforts to make it successful. The major benefit will be to the learners. He can learn many topics in good manner and keep the free time to do the practical assignments on the topic he is learning. Worldwide research has shown that *ICT* can lead to improved student *learning* and better *teaching* methods. A report made by researchers proved that an increase in student exposure to educational *ICT* through curriculum integration has a significant and positive impact on both teaching process and also on learning process. The authors have done a decent contribution in this important topic by creating awareness to the students and teachers and also to the stakeholders of the education area.

Keywords: information, technology, higher education, teaching and learning, server, client, database, security, ICT

1. Introduction

Due to present Information age the expectations from the learners are rapidly increasing to satisfy the need of learners the technology will play a major role in this area important area. The amount of time efforts and other benefits will be very considerable if we use theses technology for the educational area. The major points will be policies from government, acceptance from the teachers, Students response to these changes and overall response from the society. It will allows learners to expand their r knowledge beyond the range the quality of the education will improve to a large extent.

2. The Role of Advance Technology

The teaching and learning process is complex and difficult. The learners are presently not properly evaluated for the understanding of the subjects taught in the colleges. The proper method and procedure to teach is supported by various tools in higher education courses which can be used in large number and get the benefit of this for the students community. The knowledge is very important factor in any system now a days. Mainly to higher education sector in which the career of youth is shaped. The Information generation, storing and retrieval for further use requires various algorithms, programs and it requires good logic to design such systems. The main process of teaching and learning at higher education are studied by the researcher for the research problem undertaken in resent society the education is very important area where the best citizens can be made.

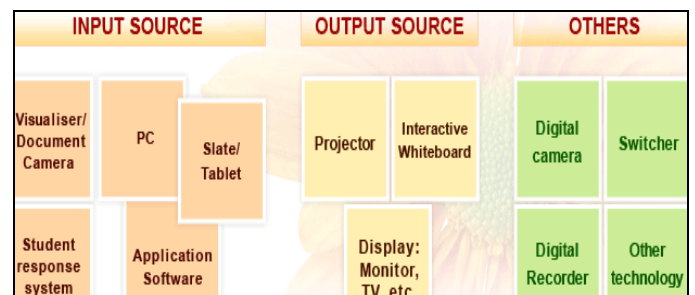
The main aim of this paper is to study the application areas of advance technology in teaching and learning process and use of ICT in brief for the same. The Authors have done a decent

contribution in this area by creating awareness in the readers and the stakeholders of the education filed.

3. ICT in Teaching and Learning

The Teaching and Learning is complex process and it requires better way to teach and make the students understand the concept and practical assignments. The use of such tools will add to th knowledge acquiring process and it will make students in getting interest in the subject. The use of computers, mobiles, Internet and many times TV channels is making this process very widely accepted and it requires lot of efforts to make it successful. The major benefit will be to the learners. He can learn many topics in good manner and keep the free time to do the practical assignments on the topic he is learning.

4. ICT Model of Teaching Learning



Source: <http://www.elmoglobal.com/en/html/ict/01.aspx>

Fig 1

5. Advantages of ICT in Teaching and Learning

1. Through ICT, graphs, pictures and images can easily be

used in teaching and improving the retentive memory of students and learners

2. Through ICT, teachers can easily explain complex instructions and ensure students' comprehension.
3. The ICT is most useful to make the concept clear of any subject and through ICT, teachers are able to create interactive classes and make the lessons more enjoyable, which could improve student attendance and concentration.
4. The ICT security and making the knowledge available to all on one platform is the problem.

6. Problems in ICT use for teaching and learning

- Setting up the devices can be very troublesome.
- Too expensive to afford and install.
- Hard for teachers to use with a lack of experience using ICT tools.
- Knowledge of ICT to all is the big issue.

7. The solutions to above problems

The main problem is of infrastructural facilities. The government and other concern parties should make the efforts to provide the facilities for the same. The cost of these devices should be affordable and widely available at all the locations

8. Future of ICT in education field

The future of ICT in educational field is very promising and bright. The use in coming years will be increased to large extent. The investment in this area will also increased. The benefits of knowledge based system is very bright since number of installation are increasing in Colleges and educational Institutes.

9. Conclusion

The paper covers in brief about conceptual discussion about use of technology in educational fields with various factors that affect the quality of the education. The use of these technology will be increased in near future and main part is creating awareness to use these facilities at all levels of the education. benefits are more as compared to investment. The Authors have done a decent contribution by creating the awareness about this topic to the readers. In future use of all these technologies will be mandatory. The authors have plan to add more data to this research study in form of developing special knowledge system for higher education in future.

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