Blend of ICT in Classroom Teaching in Secondary Education

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Abstract

Information and Communication Technology (ICT) has now played a pivotal role in the field of Education. The secondary education is considered the base of a career and psychologically the most critical stage of life. So to make the teaching-learning process effective and to maintain the interest of student in learning, the introduction of ICT in it is must now days. The Blend of ICT in Secondary Education enables the students for self-learning and provides an opportunity for teachers to use different methods in the classroom teaching. Use of ICT in various aspects of secondary education like Administration, Classroom Teaching, Institutional Management, Co-curricular activities, Guidance and counseling, evaluation system, etc. made the process error less and flawless. Here in this Paper the Classroom teaching is put in focused.

Key Word: Blend of ICT

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Introduction

Information and Communication Technology has permeated in every walk of life affecting the technology fields such as launching satellites, managing businesses across the globe and also enabling social networking. The convergence of computer, communication and content technologies, being known as ICT, has attracted attention of academia, business, government and communities to use it for innovative profitable propositions. Year by year it is becoming simpler to use devices such as desktop palm top, iPod etc.

21st century is characterized with the emergence of knowledge based society wherein ICT plays a pivotal role. The National curriculum framework 2005 (NCF 2005) has also highlighted the importance of ICT in school education. With this backdrop, major paradigm shift is imperative in education characterized by imparting instructions, collaborative learning, and multidisciplinary problem-solving and promoting critical thinking skills.

Government of India has announced 2010-2020 as the decade of innovation. Reasoning and Critical thinking skills are necessary for innovation. Foundation of these skills is laid at school level. It is desirable that affordable ICT tools and techniques should be integrated into classroom instructions right form primary stage so as to enable students develop their requisite skills. Most of the tools, techniques and tutorials are available in Open domain and accessible on web.

Review of related works

1. Jager &Lokman (1999) presented a paper in conference on, "Impacts of ICT in Education. The role of the teacher and teacher education". In this paper, a research was conducted on all educational levels in the Netherlands. But it particularly focuses on vocational education and the researcher got the positive effects of ICT on student's learning and the teaching can be more effective with the use of ICT can be taken as one of the result.

2. Devi, Rizwan &Chander (2012) presented a paper in international journal on, "ICT for quality of education in India".A theme based paper was published in which the author gave the views on use of ICT in education for the quality improvements.

3. Patra (2014) presented a theme based paper in International E-Journal on, "The role of ICT in improving the Quality of school education in India".

Definition of Term

1. Blend of ICT

According to Cross (2006), "a local model and a distance model which blend either more or less online interaction with face-to-face meetings with the term denoting flexibility and a range of technology mixes".

In the present paper, Blend of ICT means the mixture of the Information and communication technology in classroom teaching.

Use of Blended ICT in Classroom Teaching

As per the time changing, the demands of the society also increased and for the fulfillment of the need of present time and society, Education is put in the very front row. The experience of the secondary education effects on the future career. So if we want change in our education system and want the quality in Higher education system, we should start from secondary stage only.

The students in this time period are in the age group of Adolescence. The elegant outer world always distracts their mind from study so to keep sustaining their interest in study is a duty of a teacher. Some research concludes that one can concentrate only for 15 minutes at a time. If a teacher wants to deliver the content material effectively, they are supposed to use different media in classroom teaching. The blend of ICT in classroom teaching is as under:

➢ **M-learning**

This definition has been found as cited by Mali (2014), Park (2011)[5]define, "Mobile learning as the use of mobile or wireless device for the purpose of learning while on the move".

A teacher can gave the permission to students for use a mobile phone in classroom for learning purpose only.Teacher can prepare one educational page on Facebook, posted the reference material on it and can posted the activities related the subjects on it and tell them to complete such activities in given time period. Some healthy discussion also can conduct on

those educational activities. If a teacher permits the use of mobile in class, a teacher should regularly reminded the result of inappropriate use of mobile.

Teacher can provide the links for the e-books which can be downloading by them and can use that for the enrichment of their subject knowledge. Same as the links of videos on subject matter also can provided to students by which they can understand easily the content.

> ### E-learning

According to www.elearningnc.gov, E-learning means, Understanding E-learning is simple. E-learning is learning utilizing electronic technologies to access educational curriculum outside of a traditional classroom. In most cases, it refers to a course, program or degree delivered completely online.

There are many terms used to describe learning that is delivered online, via the internet, ranging from Distance Education, to computerized electronic learning, online learning, internet learning and many others. We define E-learning as courses that are specifically delivered via the internet to somewhere other than the classroom where the professor is teaching. It is not a course delivered via a DVD or CD-ROM, video tape or over a television channel. It is interactive in that you can also communicate with your teachers, professors or other students in your class. Sometimes it is delivered live, where you can "electronically" raise your hand and interact in real time and sometimes it is a lecture that has been prerecorded. There is always a teacher or professor interacting/communicating with you and grading your participation, your assignments and your tests. E-learning has been proven to be a successful method of training and education is becoming a way of life for many citizens.

Teacher can record the lecture and sent to the school so in the absence of the teacher, students can learn and management can avoid the hectic situation in school. A teacher can took the students in the computer lab and gave them the guidance for surfing the topic related material so that the students can learn to access on internet and the habit of self-learning can be developed in students. One educational blog can be prepared by teacher and can upload the additional material related to the content on it after completing the lesson.

Teacher also can divide their lectures in such that after giving the content knowledge for some time, enough time can be given to students for surfing related to that topic. An expert's lecture can be organized on particular topic. Teacher can give the links of reference materials like videos, wikis, images, PPTs, etc. related to the subject matter so in

their leisure time they can utilized it better. Even one website also can prepare by the institute and all subject related material can post on it. The list of reference books can be given for easy access of materials and one can satisfy their hunger of reading with the use of it.

The virtual class can be organized in collaboration with the school of other country so the knowledge of multicultural education can be given to the students. Even the National Institute of Open Schooling (NIOS) offer the concept of open school in which one can complete their schooling without going regularly in school. It is totally online course in which one can get admission online and even give the examination online and can get certificate also.It is the blending of ICT at secondary level.

The homework can be sent to students through various media and the student can complete and submit it online too. The assessment of students also can be done with the use of various media as it can be sent to their parents by SMS.

Merits

Teacher can made their teaching effective with the use of it. Teacher can make their class live and participative.The collaborative learning can be possible with the use of it.The habit of self-learning can be developed in the students.New and various learning experiences can be given to the students. Students can try to develop their own thinking. The development of various skills like critical thinking, reasoning skill, etc. can be possible in students.

Demerits

The full-fledged technological facilities should require for the effective use of ICT in teaching-learning process.

Conclusion

ICT enables the teacher to deliver the content easy and effectively and the innovations can be introduced in classroom teaching with the use of ICT. As the technology takes the position ahead in all fields, we can't put the field of education as dwarf. So in the end if we want the Quality in higher education, we should start from the secondary education. With the use of ICT, we can bring quality in secondary education.

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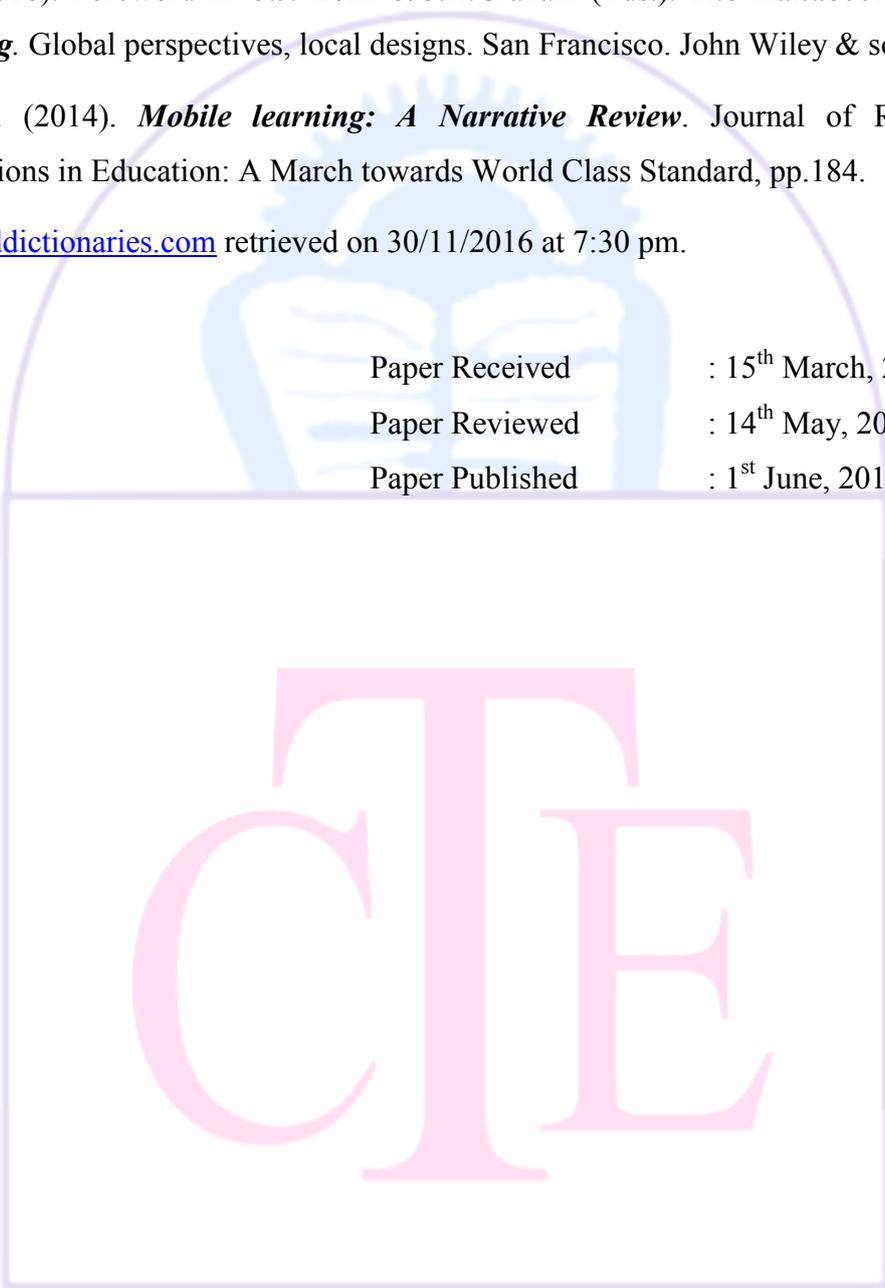
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