DEVELOPMENT OF AN EDUCATIONAL (SAE-APP) APP FOR TEACHERS USING SMART PHONES.

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Abstract- The educational field is one of the most important parts in the world. The traditional teaching methods were very limited and been carried out since past few decades and so on .Technology has also affected the educational field. Use of ICT in education is a must. Teachers are shifting from traditional teaching and have started using computers and internet for teaching in schools and colleges. Teachers are feeling more comfortable using Smartphone's .Considering this educational application for teachers naming SAE-APP (STUDY AND EDUCATE) will be developed.

Keywords- APP, COLLEGE, EDUCATION, ICT, SMARTPHONE, TEACHER.

I. INTRODUCTION

The abbreviated word 'ICT' is used for Information and Communication technology .It is being used in every field such as business, medical sciences, agriculture, education, other service organizations and government institutions. ICT refers to technologies that provide access to information through telecommunications.

It is similar to Information Technology (IT), but focuses primarily on communication technologies. This includes the Internet, wireless networks, cell phones, and other communication mediums. Modern information and communication technologies have created a "global village," in which people can communicate with others across the world as if they were living next door. For this reason, ICT is often studied in the context of how modern communication technologies affect society .With the use of ICT in education it will help to improve learning and teaching methods.ICT involves use of radio, TV, computers ,hardware, software, network, Smartphone , WIFI, digital cameras , multimedia etc.

There are various educational tools with the help of which teachers can make learning and teaching process very interactive. When a new technology is being implemented it gets difficult for the older generations to get familiar with it. Therefore, to bring awareness and train the teachers for the effective use of ICT results in effective teaching- learning process. In the light of importance of use of ICT, it is necessary to provide everybody a practical based knowledge of ICT is in the field of education.

New methods of learning can be brought into use to share the resources. Teachers are able to create interactive classes and make the lessons more fruitful and enjoyable, which could improve student concentration and make the equipped with knowledge so imparted .In the process of teaching learning, some of the ICT tools used which are as follows:

1. Tablets, Laptops, PC, Smart Phone, TV, Slate
2. Document Viewer
3. Smart Board
4. Digital Camera
5. Student Response System
6. Multimedia, Videos
7. LCD
8. Application Software like Ms-Office etc.
9. Educational Apps –Drop box, Drive, TED, Ever note, Whatsapp, Teacher Kit, Mind Map, Moodle, Blogger ,Podium, Teacher Tube, etc.

II. REVIEW OF LITERATURE

The introduction of ICT in schools can be likened to that of the invading species to the ecosystem. There will be a time of adjustment and adaptation by the principals, teachers and students as each seeks to find its place in the new learning environment and interacts with the new technology. In fact, the ICT development in schools generally passes through four phases, namely the emerging, applying, and transforming phases (UNESCO, 2002). The emerging phase is characterized by the purchase of computer equipment and software with teachers and administrators exploring the use of ICT in the school. In the applying phase, ICT is used to replace existing tasks. In the infusing phase, schools would have acquired a range of ICT and teachers begin to explore new ways of using ICT for their personal and professional practice. Finally, the last phase is realized when ICT becomes an integral part of the school system. Thus, the impact of ICT will be felt as it permeates throughout the whole school system, changing the methodology of teaching, the physical setting and the learning process. Therefore it is pertinent that ICT contributes positively to the learning in schools and for it to be effective, it requires the conscious effort of all the species in the school ecosystem that is the principal, teachers, parents and students to make it work.

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. An effective use of ICT for education, the teaching learning process give the benefits of quality and accessibility of education; learning motivation and good learning environment. Besides, an overview of the ICT and scholastic performance. The difficulties in the effective integration of ICT in the classroom make the subject a constant challenge for modern educational systems. The "New School", an innovative new curriculum applied experimentally in Greek schools, introduces the full and effective use of ICT in all aspects of school reality. Prominent in this effort is the role of ICT teachers. Given the vague framework which describes the integration of ICT in primary schools with reformed curriculum, it is important to investigate the views of ICT teachers in relation to the aims of the Ministry of Education and the obstacles they encounter in their teaching process. The research results reveal that on one hand, there is a considerable confusion among teachers with regard to their role and on the other hand, there are several external and internal barriers to effective teaching. We describe four common dimensions of change in learning environments that emerged across the countries: changes in teachers' knowledge, beliefs, and attitudes; changes in how students engage with content; changes in relationships among students, teachers, and parents; and changes in the use of ICT tools to promote students' learning. Three of these dimensions relate to shifts in pedagogical paradigms that appear to be prerequisites to effectively using ICT to support students' learning. Our findings indicate that these shifts must not just occur at the teacher level, but must take hold throughout the educational system and must accompany sustained investment in infrastructure, human resources, curricular frameworks, and assessment.

A. Objective of the Study

1. To prepare an educational app using smart phone

2. To find out probable areas in education app can be used.

3. To Review the related literature

B.Methodology

Based on the inbuilt system of Smartphone, preparation of educational app and use it for teaching and learning process. This App specially prepared for teachers which is applicable for imparting knowledge, sharing of knowledge and information, communication generally applicable to students community. A review is taken through various books, journals and electronic literature through internet. An App will be prepared keeping into a mind distribution of work, focusing important units in curriculum and notification. However the model screen design of the app are coupled with this paper.

C.Rational Of the Study:

Today is the world of technology .Keeping aside a new technology in any field cannot give competitive advantage and impede the growth and development of a particular sector. Use of technology saves time, cost and energy. Technology is coupled with nano techniques, therefore it requires minimum space .One can store a huge data, process the data and come to a conclusion within a very short time. Therefore it is the rational of the study to prepare and use educational app in the teaching and learning process

III. SAE – APP (STUDY AND EDUCATE)

A. FUNCTIONS OF SAE-APP :

The SAE-APP will be designed specially keeping into mind a teacher's daily schedule. It will have features which will assist teacher in his daily work.

1. The App has User Security.
2. Home Screen will have six menus.
3. Each menu will have its own working.
4. It will provide with Time-Table.
5. It will allow sharing Notes.
6. It will assist in providing useful links.
7. Communicate.
8. Attendance
9. Results
10. Blogs

IV. SCREEN DESIGN







CONCLUSIONS

Today's world is accessed with just a click. Education field in India cannot stay back. It has to adapt new technologies to improve its standard .With the use of educational apps it will reduce paper work which will help protect environment. More educational apps should be developed in every subject .Teacher, parents and students should be made aware and feedbacks should be taken to improve it. Although implementation cost is very high for ICT.

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