

“A Study of ICT Implementation Model in School Education With Special Reference to the Schools run by Zilla Parishad Satara”

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Abstract:

Information and Communication Technology (ICT) is playing a vital role in today's complex world and government services in particular. It is observed that Zilla Parishad run schools especially in rural region are reluctant to change their style and pattern of teaching pedagogy. The difficulties for academic staff in changing approaches to teaching are substantial. Academicians can change only if they are willing to take on every issue like validation, external bodies, IT related issues and so on. ICT can be beneficial to the world and with combination of computers and relevant educational software it helps students and teachers in their education. It benefits students because it can help them to understand and type up work quickly e.g. long essays. It gives them confidence to understand the points in the syllabus and vocabulary as well.

This paper focuses on the various issues in the existing model of schools run by zilla parishad. Authours have tried to study the present situation of teaching learning methodology in selected schools and suggested solutions to overcome from the issues related in existing model. The suggested solution can create interest to learn the present curriculum and it is also useful to the teachers and students to make quick references of any topic easily and upgrade their knowledge

Keywords: Information Communication Technology, School Education, Government teaching learning process, Zilla Parishad

INTRODUCTION

ICT in schools provide an opportunity to teachers to transform their practices by providing them with improved educational content and more effective teaching and learning methods. ICT improves the learning process through the provision of more interactive educational materials that increase learner's motivation and facilitate the easy acquisition of basic skills. The use of various multimedia devices such as television, videos, and computer applications offers more challenging and engaging learning environment for students of all ages.

Teachers get benefited from this because they can have more free time and without complaining lessons can be completed in less time as well. For example, if all the work and tests are programmed on a system the teachers will have a hassle free life and they would not even have to waste time on marking papers because the system will print out the results for them.

STATEMENT OF THE PROBLEM:

Students and teachers are concerned with teaching-learning process in education, it may be in private or public or cooperative sector schools or colleges. This process deals with development of students and also the teachers, in accordance with their aspirations and to suit the educational needs. Students have all the right of enjoying the humanly modern education. The newer technology plays a vital role in bringing success to education. Nation growth depends upon the progress of education. Quality is important factor and quality of the students not only depends on the quality and skills of teachers but also the technology employed in the teaching-learning process involved in education. Reformation in education is essential and the Government is putting in all-round efforts to bring about reforms in the school education. Implementation of ICT in school education is also on its agenda as such the Government of Maharashtra has already implemented ICT in the Zilla Parishad run schools. However it remains to be seen how successfully ICT has been implemented and are the benefits associated with ICT forthcoming. Hence to answer these questions, this study titled “**A Study of ICT Implementation Model in School Education with Special Reference to the Schools run by Zilla Parishad Satara**”

OBJECTIVES OF THE STUDY:

The prime objective is to identify the various problems and solution thereof in Zilla Parishad run schools and school education using ICT under Zilla Parishad. The major objectives of the proposed research are as under:

- 1) To study existing ICT implementation model used in the schools run by Zilla Parishad Satara.
- 2) To design and develop new ICT implementation model for better utilization by students and teachers.
- 3) To suggest measures for improvement and to cope with the innovative technology..

SCOPE OF THE STUDY:

Researchers have studied various scopes like geographical scope, topical scope, functional scope

and analytical scope. Along with this researchers have been suggested following scope for further study:

- E-learning in selected schools.
- E-security in schools run by Private and public organizations.
- ICT implementation : strength and weakness of teaching and learning.
- Role of data mining and data warehouse in school education.

SIGNIFICANCE OF THE STUDY:

We can observe the status of schools run by zilla parishad, it seem that the ICT infrastructure in such schools are not adequate. It is essential to upgrade the infrastructure of IT in these schools. ICT in schools improve the ability of teaching learning process.

Due to use of computers, student should feel confidence and with the help of various materials which are in electronic forms can be obtained very easily and quickly for further use to the students of those schools. Hence it is very essential to provide ICT infrastructure in schools run by zilla parishad of Satara District for better and quality education.

RESEARCH METHODOLOGY:

This research is both exploratory and descriptive in nature and utilizes both quantitative and qualitative data. The objectives and hypotheses presented in the earlier pages, are researcher formulated by the often an exhaustive study of Z.P. schools.

The methodology adopted for the research is elaborated as under:

Survey Method:

The survey method will be adopted in order to elicit relevant information pertaining to latest innovative technologies initiatives implemented by the selected schools under the Zilla Parishad in the selected districts

of Western Maharashtra. To begin with a pilot survey will be conducted to clarify and finalize the key aspects of innovative technologies. On the basis of pilot study the schools in the Satara Zilla Parishad will be visited and responses from teacher, student and other stake holder will be collected. A well-designed

Observation Method:

Since the interviews will be held in the interviewee's place of work, this will prove the opportunity to observe minutely present scenario of I.C.T. and the innovative technology implementation practices and programmes. This will enable the researcher to have a close and accurate view of the innovative technology implementation practices and programmes. Therefore, the Observation method will also be adopted. The aim of the observation method is to cross examine the information provided by the officers and stake holders related to innovative technology infrastructure, manpower, technology and practices implemented by the Z.P schools.

Sources of data:

This research will use both the sources of data i.e primary as well as secondary.

Primary Data:

The researcher will collect the required information from the officers of the ZP and educational department, students, teachers and headmasters of the ZPs schools and parents as well of Satara Districts. The primary data will be collected with the help of the questionnaire, discussions, interviews, observation and

comprehensive questionnaire will be the main research instrument that will be personally by the researcher herself.

In addition the opinions of C.E.Os, authorities of school education department will be collected through a well formulated questionnaire.

requisite fieldwork. The researcher will be selecting appropriate number of samples and will collect the data on the basis of present ICT infrastructure, funds, trained teachers, and problems related to innovative technologies implementation. The researcher will cover data for the period from July 2009 to March 2014.

Secondary Data:

The researcher will collect necessary information from Books, M.Phil. Dissertations and Ph.D. research theses, magazines, Internet, related websites, newspapers, articles, Govt. publications and Govt. offices.

SAMPLING:

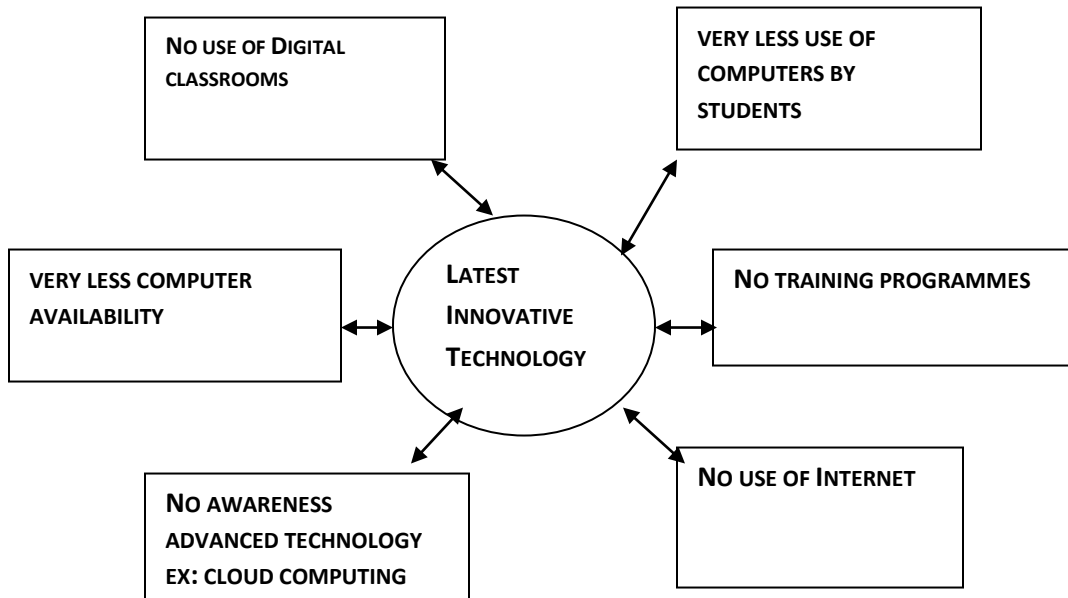
Researcher has selected school education i.e., from 1st Std. to 7th Std., in Satara district. The researcher has considered all the schools under the ZP of Satara, and also considered the staffs' age, teaching capacity, environment of innovative technology, Internet connectivity, geographical area, location, etc. The researcher has used stratified purposive sampling method for selecting the sample from the total 899 schools. The researcher has selected 20% of the schools for the study. The random sampling method is adopted for selection of the sample.

Table No: 1 Researcher has selected sample size as follows:

<i>Sr.No</i>	<i>Taluka</i>	<i>No. of Shools As on July 2012</i>	<i>Selected Sample Size</i>
1.	Karad	87	18
2.	Patan	70	14
3.	Wai	64	33
4.	Satara	89	46
5.	Mahablewsher	72	36
6.	Khandala	69	38
Total	06	451	185

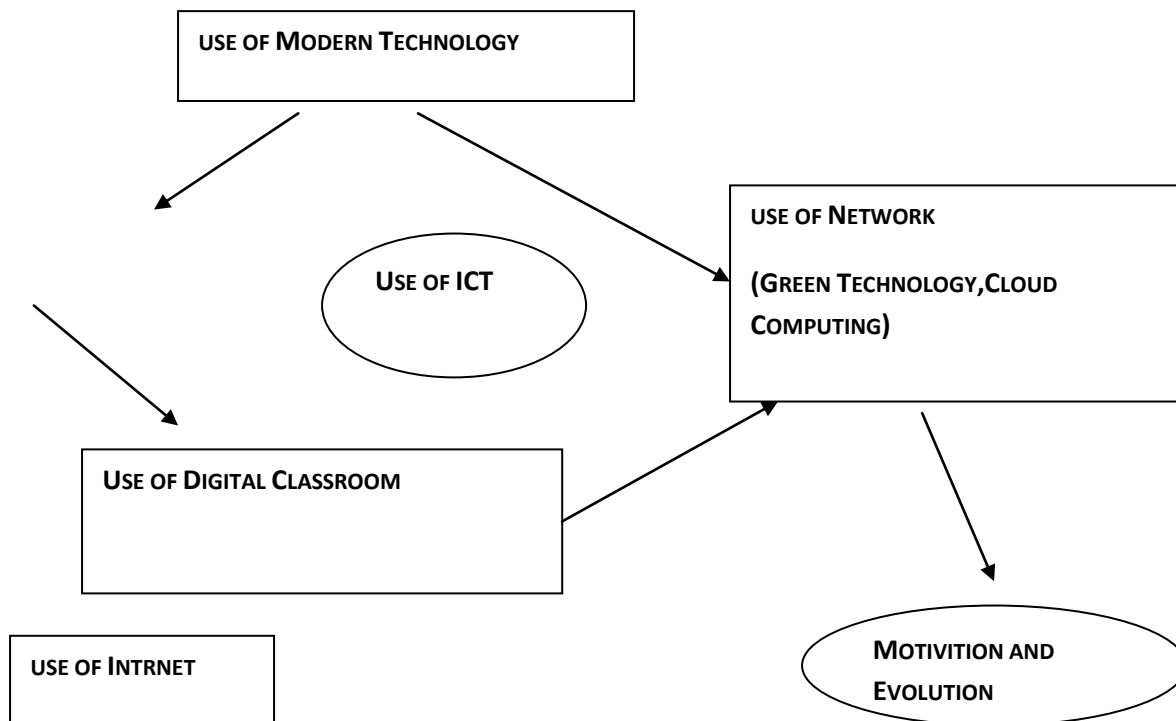
Source: The above data received from Educational Department of Z. P. Satara.

Diagram no.1: The existing scenario of IT implementation in Zilla parishad schools



Suggested module for School Education Conceptualizing

Diagram No.2 Suggested Model for ICT implementation in school education of zilla parishad schools.



The above model is suggested for zilla parishad schools for better and quality education to their students.

Advantages due to ICT implementation in school education

The advantages of ICT implementation are given below:

- ICT can help teachers to explain and students to understand the concepts that are too big or too small or processes that happen too quickly or too slowly to demonstrate in physical classroom due to digital simulation.
- Students can set up language lessons with a native speaker who lives in another country and attend the lessons via videoconferencing.
- Innovative technology are useful to compute complicated equations and problems to give correct solutions.
- Due to innovative technology it becomes more easy and efficient for teachers to make assessment of students' answers.
- Use of multimedia for telling relevant stories on concern topics.
- Student can make use of E-Books any time very quickly due to portability.
- Games on computers also improve the decisive knowledge of students.

Conclusion:

It is concluded that to give better education to the students of zilla parishad schools it is essential to implement the IT infrastructure in their schools. Due to ICT implementation they can obtain the required study materials very easily and quickly. It is also possible to demonstrate the concepts in various ways like using videoconferencing, way of multimedia and games to understand the concepts therefore they can improve the quality of education.

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