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A Survey on Use of ICT Tools in Education

Ashwini Satkar, Ashwini Patil

Assistant Professor, Dept. of Computer Science, Dr. D. Y. Patil ACS College, Pimpri, Pune, India

ABSTRACT: As we know that there are various traditional methods of learning but as technology changes day by day we have to focus new methods of teaching as well as learning. This paper discusses the basic ideas of Learning. It starts with the introduction to Learning, Learning Methods and problems and then we discuss the modern methods. Mainly we focus on use of ICT tools in science & education.

KEYWORDS: Learning, Traditional & Modern Methods of Learning, ICT, Use of ICT Tools.

I. INTRODUCTION

To understand the importance of ICT in Education there is need to understand the meaning of ICT. ICTs stand for information and communication technologies. These are defined to provide set of technological tools and resources used to communicate and to create, disseminate, store, and manage information. ICT tools are used in the business environment, modern corporations and it provides governments with an efficient infrastructure. At the same time, ICT adds value to the processes of learning and in the organization and management of learning institutions.

II. LEARNING

Learning is the act of acquiring new or modifying and reinforcing existing knowledge, behaviors, skills, values or preferences and may involve synthesizing different types of information. It is ability to learn is possessed by humans, animals, plants and some machines.

In learning we acquire knowledge through study or experience.

III. TRADITIONAL METHODS

- We use teacher-centric classrooms, Chalk and talk methods & Regimented classrooms.
- Traditional methods offers lack of collaboration and group learning .Teachers in the mode of knowledge dispensers rather than facilitators
- More emphasis on examinations and results rather than understanding of concepts
- Improper alignment between objectives, activities and assessments

To avoid such problem we go for **Modern methods** in use in education

IV. MODERN METHODS

- It offers technology-driven classrooms, Continuous comprehensive evaluation, Cross-curricular connections.
- It is inquiry-based learning. It emphasizes on understanding of concepts, linking curriculum with life, skill building, life skills and values
- It provides Smart interactive boards, BYOD – Bring your own device, Collaborative learning, Differential learning, Activity-based learning and learning labs, Interdisciplinary learning
- It provides digitization in teaching, learning assessment and feedback.



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V. DIFFERENCE BETWEEN TRADITIONAL LEARNING & MODERN LEARNING

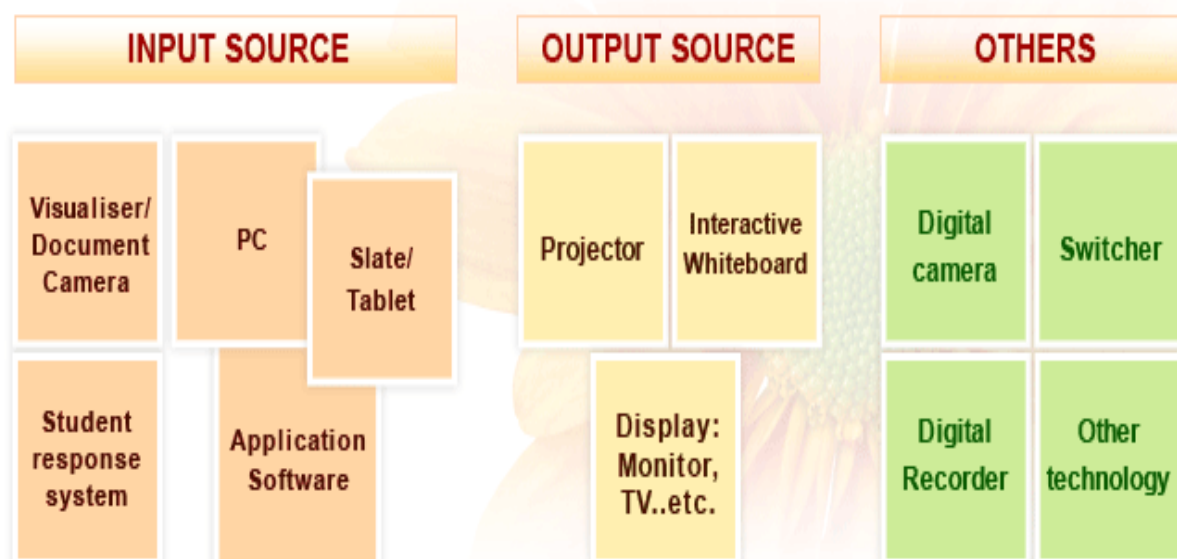
Factors	Traditional LMS	Modern Learning System
Learning Interventions	Formal	Formal, Informal and Social
Learner Engagement	Classroom, Desktop	Classroom plus on-demand learning via web or mobile: anytime, anywhere, and on any device.
End User Tools	Browse Catalog, Simple Search, Email notification	Browse Catalog, Faceted Search, Individual Development Plan, Dynamic Recommendations, Learning Paths, Learner/Manager Dashboards, Email/Text Notifications, Ratings and Reviews, Badges/Leader boards

VI. ICT

We are living in a constantly evolving digital world. ICT has an impact on nearly every aspect of our lives - from working to socializing, learning to playing. The digital age has transformed the way young people communicate, network, seek help, access information and learn. We must recognize that young people are now an online population and access is through a variety of means such as computers, TV and mobile phones.

ICTs stand for information and communication technologies and are defined for the purposes of this primer, as a “diverse set of technological tools and resources used to communicate and to create, disseminate, store, and manage information.”

VII. ICT TOOLS





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INTERACTIVE WHITEBOARD



It is a wipeable board with a white surface used for teaching or presentations, have a area common to several users or applications where they can exchange information in particular as handwriting or graphics.

DOCUMENT CAMERA

It is also known as visual presenters, visualizer, digital overheads, or docucams are real-time image capture devices for displaying an object to a large audience. ... Most objects are simply placed under the camera.

OHP



An *overhead projector* is a variant of slide projector that is used to display images to an audience. It is useful for student, teachers & lots of peoples in institutions as well as IT companies.



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COMPUTER



It is an electronic device which is capable of receiving information (data) in a particular form and of performing a sequence of operations in accordance with a predetermined but variable set of procedural instructions (program) to produce a result in the form of information or signals.

PROJECTOR



A **projector** or **image projector** is an optical device that projects an image (or moving images) onto a surface, commonly a projection screen

VIII. BENEFITS OF ICT TOOLS

- ICT has positive impact on students' performances in their academics.
- ICT has positive impact on impact on teachers and teaching processes.
- ICT allows us to do tasks such as preparing lessons, sequencing classroom activities etc. Therefore, teachers plan their lessons more efficiently. It also help teachers to work in teams and share ideas related to curriculum.
- It facilitates use of Multimedia device rather than White/Black board.
- It offers Internet for doing assignments and projects rather than books or library.
- It allows usage of wireless communication in university/college.
- IT provides vast knowledge to students through Internet. Allows use of Digital Projectors helps the students for better learning.
- IT can be used to enhance educational efficiency at the local, regional and national level.
- It can improve the knowledge skills of students & delivers better results.



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IX. CONCLUSION

In this paper we have seen different ways of learning. We have used different ICT tools to increase the productivity as well as increase the performance of students, teachers & different types of users in the system. It facilitates a platform to achieve our task in an efficient manner with less overhead. We are easily adapted to the today's growing digital world by making use of different digital tools of ICT. ICT tools are not only used for students & teachers but useful for all the peoples .It is used in educational institutes, corporations ,IT companies etc.

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