ICT in Teaching and Learning

ICT

It is an umbrella term that includes any communication device or application, encompassing: radio, television, cellular phones, computer and network hardware and software, satellite systems and so on, as well as the various services and applications associated with them, such as videoconferencing and distance learning.

What is effective ICT

- Engage & enthuse learner
- Raise achievement
- Enable better understanding
- Foster improved communication
- Have a positive impact on workload

Necessity of ICTs

- Globalization of
 - •Economy
 - Information
- Tech Innovations
- Knowledge-based
 - Economy
 - Society
- Escalating Demand for Education



Effective Learning



For All

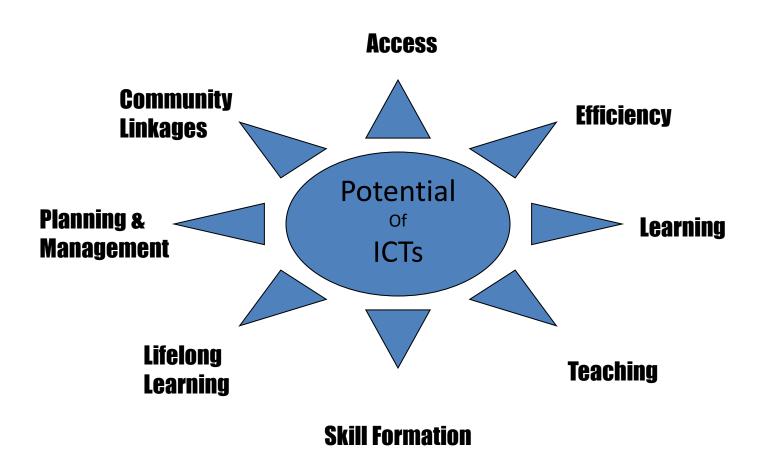


Anytime



Anywhere





VIRTUAL EDUCATION

It is instruction in a learning environment where learner & teachers are separated by time & space and teacher provide course content through internet

VIRTUAL EDUCATION

- > VIRTUAL CLASSROOM
- > AUDIO BASED COURSE
- > VIDEO BASED COURSE
- > ANIMATED COURSE
- > WEB SUPPORTED TEXTBOOKS
- > PEER TO PEER COURSE

The Role of Teachers in ICT Education

- Teachers are indispensable for successful learning about ICT, and learning and teaching through ICT.
- Empirical studies have established that teachers' ability and willingness to use ICT and integrate ICT into their teaching is largely dependent on the professional development they receive
- Teaching through ICT entails the development of nationally relevant context software for school use.

Functions of ICT

- Speed and automatic functions: monitoring, controlling and feedback
- Capacity and Range: richness of resources, the power of communication
- Interactivity: dynamic feedback and immediate response to changing inputs
- Learners to progress at their own pace
- Motivate learners

- Solve the problem that where you live may determine what you can study
- Reduce teachers' workload
- Link schools/teachers with parents
- Line students to world experts

Advantages of ICT for Teaching

- Presenting information and ideas in a dynamic, attractive and exciting way.
- Explaining some difficult concepts and knowledge easily
- Ensuring clear delivery of teaching points
- Assisting in the preparation of teaching materials

Advantages of ICT for Teaching

- Assisting with time management in class
- Helping to cater for students with difficult abilities
- Helping to develop students' co-operative learning skills
- Assessing students and using the information gained to extend their learning
- Sharing ideas, communicating with the outside world and getting new information about the subject being taught

Advantages of ICT for Learning

- reinforcing students' learning in a variety of ways
- Allowing students to change things easily if they make mistakes, want to add or delete something, try out ideas or make improvements
- Enabling them to learn by themselves at their own pace
- Saving time
- Allowing students easy access to a wide range of information

Advantages of ICT for Learning

- Helping them to interpret data and communicate what they have found out
- Enabling them to learn subjects that are difficult or dangerous to teach
- Enabling them to connect with the outside world
- Being patient with students when they make mistakes or do not understand
- Improving their thinking

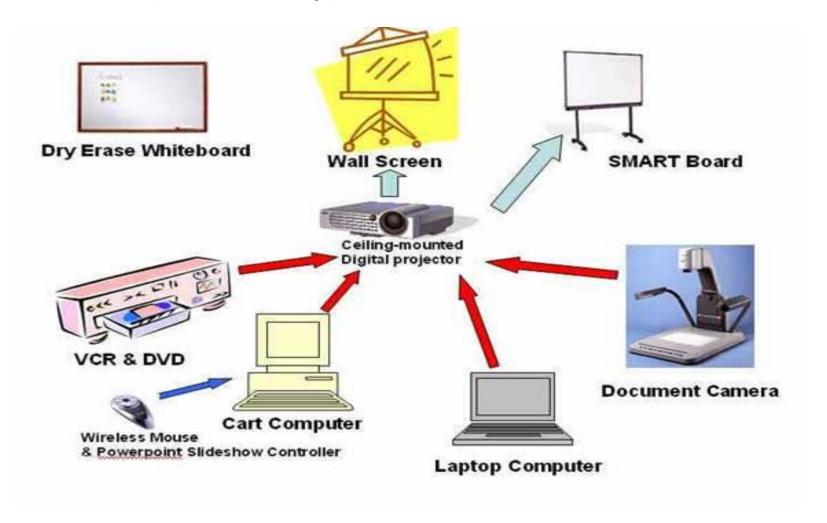
Learning is Effective when students:

- acquire new knowledge or skills and increase understanding of the subject
- apply intellectual or creative effort to work
- are productive and work at a good pace
- show interest, sustain concentration, think and learn for themselves
- understand what they are doing, how well they have done and how they can improve

Smart Classrooms

Smart Classroom contain the following items such as:

- ✓ Furniture (Collaborative furniture),
- ✓ Computers,
- ✓ Photocopiers,
- ✓ Scanners,
- ✓ Lighting Accessories,
- ✓ Projectors,
- ✓ Speaker,
- ✓ Screens, etc.



Typical contents of a Smart Classroom



Typical Teaching and Learning session in a Smart Classroom



Sample of Collaborative Furniture



Lighting in a Smart Classroom



Projectors and Screens locationsin a Smart Classroom

Challenges

the significant advantages, adoption and integration of technology into our educational system make a positive change but still very low. In institutions where technological facilities are provided, for several reasons are either not functioning or functioning below expectation.

Thank you