

NET BASED TEACHING - LEARNING PROCESS IN EDUCATION

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INTRODUCTION

- The process of all learning is soon crossing boundaries and barriers and it requires a change in knowledge competencies and skills to deal with technological advancement in networking which is necessary to establish a network between students, educators, parents, institution and libraries and the world over.
- The modern technologies are a diverse set of tools and resources used to communicate, create, disseminate, store and manage information.
- These technologies include computers, internet, broadcasting technologies and telephony.
- These technologies become more common in education it will be essential to learn whether their adoption substantially accelerates the learning curve, thereby reducing the time spent to prepare staff for new tasks and improving the quality of their performance.

CHANGES IN EDUCATION THROUGH TECHNOLOGY

- **Advances in Technology** - Changing the Whole Nature and Philosophy of Education
- **Effectiveness of all Educational System** } - Achieved only when its Educational Process Results in true Learning in the Individuals
- **A smart classroom enables the teacher to display**
 - Power-Point presentations,
 - present the Internet resources,
 - show streaming videos with audio
 - and play course-related CD's and DVD's.

A classroom must look like a Computer Laboratory

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- all of them are **connected** to the **Internet**
- **and installed** with different **software** and
- **Course-material** relevant to course being taught.

Technology facilitates the educational transaction between providers and users by keeping students

- well informed about the courses, enhancing Teacher-student relationship through e-mail,
- chat session,
- on-line learning,
- discussion forum,
- Blog etc.
- enhancing active learning,
- sharing ideas,
- providing immediate feedback,
- encouraging paced learning and
- allowing for effective Mapping of learning pathways.



Teachers would be able to develop

- lesson plans
- find free animation and simulation

Enhancing students' learning by the integration of

- Intellectual,
- social and
- emotional values through the technology based learning which will enable teacher to focus on the holistic development of students.

DIFFERENT TOOLS IN TECHNOLOGY

(MOOC)

- A Massive Open Online Course (MOOC) is an online course aimed at unlimited participation and open access via the web.
- In addition to traditional course materials such as videos, readings, and Problem sets, MOOCs provide interactive user - that helps to build a community for Students, Professors and Teaching Assistants (TAs).
- Although early MOOCs often emphasized open access features
 - connectivism and open licensing of content
 - structure and learning goals to promote the reuse and remixing of resources
 - some notable newer MOOCs use closed licenses for their course materials, while maintaining free access for students.

ONLINE TUTORING

- Online tutoring is a new way for a student to receive help, either scheduled or on-demand.
- Sessions are done through an application where a student and tutor can communicate.

Common tools include

- chat
- whiteboard
- web conferencing
- teleconferencing and other specialized applets which make it easier to convey information back and forth.

INFLIBNET

- Funded by UGC-provide 'electronic access to literature available over internet' in all areas of learning to the university sector in India
- For Automation and Networking - Till date 142 universities founded by UGC under this program

DELNET

- Developing Library Network
- An another major E-resource sharing library network in South Asia
- It networks more than 900 libraries in India and 6 other countries
- Offer access to about 50 lacs records of books, journals, articles etc...
- NCERT and NCTE - have been launching schemes from time to time
- By collaborating with Intel@tech program - NCTE has started new project for integrating technology in Education

FACE OF CLASSROOM IS CHANGING

- Teachers should prepare to keep up with technology utility in the classroom
- ICT or E-Learning is not only an efficient tools for teachers in their day-today work
- But it also offers them opportunities for professional development

TEACHING OF BIOLOGY

- <http://www.youtube.com/watch?v=7OyPsJbFXjg> Digestive System
- <http://www.youtube.com/watch?v=V2T2-v3my38> Nervous System
- <http://www.youtube.com/watch?v=9UukcdU258A> Functions of Brain
<http://www.learnerstv.com/animation/animation.php?ani=%20321&cat=biology>
this is the site for denoting the parts of heart.
- <http://www.learnerstv.com/animation/animation.php?ani=%20323&cat=biology>
this site is for mitosis cell division.

TEACHING OF HISTORY/GEOGRAPHY

- <http://www.youtube.com/watch?v=kGGzOYhvr74> **GEOGRAPHY**
- **4 climate of India Economics**
- <http://www.youtube.com/watch?v=WgktM2luLok> **Geography Lesson: What is a Volcano?**
- <http://www.youtube.com/watch?v=JpNg8Z75sEs>
- **5 Most Mysterious Photos from Mars**
- <http://civilwaranimated.com/>
- Teaching of history – civil war animated

NCERT WEBSITES:

- <http://www.meritnation.com/>
This website is for free trail for 1 – 12 th standard CBSE self study package given by NCERT.
- <http://www.learnnext.com/FreeTrial.htm?gclid=CNH1m-eO8LUCFdFx6wodhD8AIw>
This website is for free trail for 6th to 10th self study package given by NCERT.
- <http://www.meritnation.com/products/demo/online/1/video>
- This is the site designed for all the classes from class 1 to class 12 by NCERT video animations

TEACHING OF SCIENCE

- <http://www.youtube.com/watch?v=yjJ3eSD77zE> CHEMISTRY
- **States of Matter - Solid, Liquid, Gases. Interesting Animated Lesson for Children**

- <http://www.learnerstv.com/animations.php>

This web site is a very useful site for all the subject animations.....
Make the classroom lively.

- <http://www.learnerstv.com/animation/animation.php?ani=%2093&cat=physics>

This website is for micrometer screw gauge animation.
Similarly we can see for all the subjects.

TEACHING OF SCIENCE

- <http://phet.colorado.edu/en/simulation/forces-and-motion-basics>

PHYSICS

Interactive simulations regarding physics concepts..... This is an example for force – motion

- <http://www.visionlearning.com/library/>

Mostly regarding all science concepts which is maintained as a library.

- <http://www.edutopia.org/blog/websites-for-science-teachers-eric-brunsell>

- http://www.learnerstv.com/animation/animation.php?ani=%20121&cat=c_chemistry

Rutherford scattering model experiment

- <http://teaching.about.com/od/tech/tp/Interactive-Science-Websites.htm>

This is an interactive and hands-on science activities.

TEACHING OF TAMIL

- <https://www.youtube.com/watch?v=cCPLDOt1IO8> **Amma ingae vaa vaa**
- <https://www.youtube.com/watch?v=jGeXCckhdpY>
Uyir Ezhuthukal - Adipadai Tamil - Pre School - Animated/Cartoon Videos for Kids
- <http://www.southasia.sas.upenn.edu/tamil/howto.html>
- This website is for web assisted learning and teaching in Tamil (WALTT). Tamil language is the one among 30 world wide famous spoken language. This is an exclusive website for Tamil language to learn. That is upenn.edu University of Pennsylvania. In this website Tamil language in context, separately for novice beginners, intermediate and advanced level learning is clearly instructed.

TEACHING OF ENGLISH

- <http://www.tolearnenglish.com/>
- This site for 10,478 English lessons and exercises. Separate levels are there for beginners, intermediate and advance learners.
- <http://busyteacher.org/14846-7-worst-pronunciation-mistakes-esl-students-make.html>
- This is the site for the 7 Worst Pronunciation Mistakes ESL Students Make Around the World.

TEACHING OF MATHEMATICS

- <http://www.youtube.com/watch?v=MlpDCaZo7bY> **MATHS**
- Adding numbers for children | Addition | Add numbers to 10 | Kindergarten video playlist
- <http://apps.exploratorium.edu/10cool/index.php?cmd=browse&category=14>
10 cool sites for enjoying maths...(fun maths – games)
- <http://www.seemath.com/>
This site is for mathematics with animations.
- <http://www.math-worksheet.org/slope>
This site is for maths worksheets for all Algebra and pre- algebra. Solution with Explanation is given and explanations using you tube is also there for real classroom experience.
Beginning Algebra, Beginning trigonometry, equations, fractions, exponents, linear equations and inequalities, percents, polynomials, quadratic functions, geometry etc...

TEACHING OF MATHEMATICS

- <http://www.cumbavac.org/math.htm>
- This is an important website which gives more than 100 websites for different mathematical concepts.
- <http://search.about.com/r.htm?q=interactive%20science>
- This site is About.com , have the following different video animations, explanations etc...
- <http://math.rice.edu/~lanius/Lessons/>
This site is for fun mathematics using different concepts.

CONCLUSION

- Nano Technology
- Teacher – ICT skills = **Inefficient Teacher**
- **Efficient Teacher + ICT Skills = Best Teacher**
- ICT skills is very essential for a teacher in technological year
- Foreign Universities in India
- Let us all **Aware and Acquire ICT Skills** for naming us as Professionals

THANK YOU