



VIDHYAYANA

An International Multidisciplinary Research e-Journal

ISSN 2454-8596

www.vidhyayanaejournal.org

Technological Skills for Future Teacher Education

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Abstract

This paper put focus on the teaching skills for the future teacher. Researcher discussed different technological gadgets and website which are useful in teaching learning process. In this modern era teacher should acquire the technological skills and he/she should use these skills in their routine teaching process. Teacher should aware about the different website Google classroom , google hang outs, NROER, and gadgets like MOCC, Coursera etc.. This paper helps teacher educator and future teacher to acquire the techno skills.

Key Words : Teaching Skills, MOOC, COURSERA, NROER

Introduction:

In 21st century “Technology is everything”, includes teaching field. Teaching moves around three basic centers: A Teacher, A student and a society. Teacher gives such an education to the students which uplift a society. If a student of society is having technological approach than teacher must have technological skills for teaching.

Importance:

Some important of technological skills in education system are as below:

- Usage in evaluation and examination
- Usage for developing the teaching learning materials
- Usage for school administration and management
- Usage in educational research
- Usage in library

System for applying teaching skills:

There is a need of system to complete the teaching process for a person who is well equipped with advanced technology. So now the system requires a smart class and/or virtual classroom to create such a system in education.

➤ **Smart class:**

Smart class is an advanced technology which is collaborate with electrical and electronic tools and computer network techniques for implementation of teaching learning process.

• **Tools:**



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Computer, printer, pen drive, Modem, DVD, digital pen, stylus pen, Interactive & Touch sensitive White Board, microphone, speaker, digital camera, projector, smart phone, amplifier and many more.

- **Techniques:**

Internet, Networking System, 2D-3D Animation Technology, Multimedia, Wireless Control System, Virtual key board.

- **Advantages:**

- To understand the abstract concept, 2D and 3D animation techniques are used.
- For effective presentation of the content using multimedia.
- The scientific experiment can be demonstrated vigorously by creating a virtual laboratory on the screen.
- Simulating reality can be created on the screen to show all geographical and natural or artificial events.
- Teacher can teach from one place to the students who are sitting at far distance also.

- **Virtual classroom**

Virtual classroom is an information technology based system where a live teaching – learning process is carried out by connecting the students, teachers and educationalist who are geographically present at one place or at different places, with one another.

- **Techniques:**

- It is Web based chatting.
- It is Web based video conferencing.
- It is Web based audio conferencing.

- **Advantages:**

- It can connect many school students in teaching learning process at the same time.
- It can teach in a team.
- It can give advantage to the students those who are expert from other countries and educationalist.
- It can give instant solution to the problem related to the subject matter.
- It can carry education to remote areas.



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Connecting students via social media:

We can connect students through such social networking sites like:

- Facebook
- Whatsapp
- Instagram
- Twitter
- Blog
- Telegram

With the help of social networking sites teacher can conduct class test, give assignment, give instructions and notices, share notes , live streaming of lectures, to be in touch with parents even teacher can solve queries of the students.

Teacher has to adopt technological gadgets/websites:

❖ Gadgets

1. MOOC :

A massive open online course (MOOC) is an online course aimed at unlimited participation and open access via the web. In addition to tradition course materials such as filmed lectures, readings and problem sets. Many MOOCs provide interactive user forums to support community interaction among students, professors and teaching assistants.

2. Coursera:

Coursera works with universities and other organizations to offer online course , specializations and degrees in a variety of subjects, such as engineering, humanities, medicines, biology, social sciences, Mathematics, business, computer science, digital marketing, data science and many more.

3. SWAYAM:

SWAYAM (Study Webs of Active learning for Young Aspiring Minds) programmed of ministry of human resource development. Govt. of India SWAYAM is an instrument for self-actualization providing opportunities for a lifelong learning.

4. Easy test creator/maker:

Easy test maker is a free online test generator to help you create and manage your test. It is useful to create, to print and to publish your tests online. Easy test maker makes it easy for you to perfectly



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format multiple question types, print alternate versions and publish to the web for online tests.

5. Flip class room:

Flipped classroom is an instructional storage and a type of blended learning that reverses the traditional learning environment by delivering instructional content, often online outside of the classroom. It moves activities, including those that may have traditionally been considered homework, into the classroom, students watch online lectures, collaborate in online discussions, or carry out research at home and engage in concepts in the class room with the guidance of a mentor.

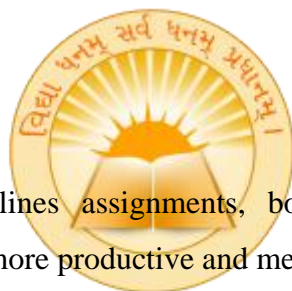
6. Course lab:

Course lab is a powerful, easy to use, e-learning authoring tool that offers a programming free environment for create high quality interactive e-learning content that can be published on the internet, learning management systems, CD-ROMs and other devices. Course lab is available as a commercial product(version 2.7) and as a freeware(version 2.4)

❖ Websites:

1. Google classroom:

Google classroom streamlines assignments, boosts collaboration and fasters seamless communication to make teaching more productive and meaningful.



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2. Google Forms:

Google forms are a free service for data collections. Users with a Google account can create forms through an interface that can be shared via email or social media .it is useful for evaluate MCQ type questions.

3. Google Hangout:

Google hangout is a communication platform. It is providing instant massaging, video chat, SMS, etc. NCERT is also communicating with school teacher and persons who are studying online courses.

4. NROER:

National Repository of Open Educational Resources. It is developed by CIET, NCERT. It was launched in 2013 with and literacy, MHRD, Gov of India.



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NROER hosts large number educational resources in many subjects and in different Indian languages for primary, secondary and senior.

Conclusion:

In this paper researcher discussed different topics like use of ICT in classroom teaching, importance of ICT in education, use of social media in education, system for using technology, different website and gadgets for teaching which are useful for teachers.

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