Present volume a collection of articles is an in-depth study of Insight on Educational Issues. It covers wide range of topic like: Concept Mapping As Teaching Learning Strategy; The Right of Children to Free and Compulsory Education (in India); Professional Development of Teachers for Quality Learning; Role of MOOCs in Professional Development of Teachers; Attitude of Students towards Education Statistics; Role of Higher Education in Transforming India; E-Learning: An Educational Revolution; Stress Management Among the Students; Distance Learning In Teacher Education; An Achievement or a Change; Transforming Classroom through Modular Learning; Problem of Languages Affecting the Education; Right to Education (RTE): A Critical Appraisal; Teachers' Teaching Style and Students' Motivation; Women Empowerment through Education: Use of Educational Technology for Better Learning among Students; Indian Higher Education: Some Reflections; Importance of Total Quality Management in Higher Education; Learning: A Path Revisited; Minorities in Higher Education: Representation, Problems and Issues with Special Reference to the Muslim Minority; Portfolio Assessment; Decline of Professionalism in Higher Education; Role of Teacher-Student Relationship in Effective Classroom Management; Enrichment of Teaching Learning through ICT and Empowerment of Women through Education. It is hoped that this volume would be useful for readers, researchers, policy makers and stakeholders in the teaching-learning process.

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Foreword

The progress, prosperity, safety, security and welfare of a country highly depend on its citizens, which in turn depends on how these people are moulded by their teachers in their youthful days. We are one of the most youthful nations and have a competent and reliable work force of youths. Now the experts are saying that this century will be that of Indians as ours knowledge economy is booming. A knowledge economy requires role performers in different walks of life, who are trained, inspired, encouraged, motivated and cajoled by the teachers in the classrooms. In this context, the teachers have got added importance. Equally important is how well they are trained in the teacher training institutions to do the needful. This task of training lies on the shoulders of the teacher educators who mainly perform three duties- teaching in the classroom, conducting research and writing research papers and articles and doing extension activities for the society. However teaching in the classroom and writing research papers and articles are just like the two beautiful twin sisters and in my opinion the teacher educators should not be partial with anyone and this is the real challenge.

Since the implementation of the new NCTE regulations 2014, the duration of B.Ed. And M.Ed. Courses have been doubled and so is the work load of the teacher educators. In most of the teacher education institutions the already overloaded teacher educators are carrying out the duties according to the new regulations. Hence, though the number of papers to be taught are doubled but the same number of teachers is doing the needful when the number of papers to be taught was just half. In fact the nature of the work load of the teacher educators is pole apart from the work load of other academic staff. They have to visit to the schools in which students of B.Ed. Are engaged for internship and simultaneously take the classes of other courses of the teacher education institutions. They have to conduct the sessions of micro teaching and simulated teaching and simultaneously have to guide two or three students to write their M.Ed. Dissertations. They are not only required to set the papers for the regular exams of B.Ed. and M.Ed. But setting the question papers of different entrance tests as well. In this scenario writing a book is really a herculean task, however, the requirement of API for promotion under CAS needs this that is why few teacher educators show the courage to do it.

contributing in this academic endeavour.

I express deep gratitude to my parents Mr Sabir Ali and Mrs Mubeena Begum, my brothers and sisters and my wife (Mrs Wajahat-U'n-Nisa) and son and daughter who relieved me from family responsibilities and provided me moral support which enabled me to complete the work.

I hope this book will be useful to researchers, educationists, academicians, policy makers and opinion shapers.

I would like to thank my publisher ABS Books, New Delhi for publishing this work in the shortest possible time.

I look forward to suggestions, comments from all the readers for the further improvements of this book.

Dr. Mohd Shakir

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15
Use of Educational Technology for Better Learning Among Students

Bushra Ahmad*

INTRODUCTION:

These days almost everyone is very much familiar with the objects like computer, Smart phone, i Phone and tablets. They are the most discussed topics and also become the need of our everyday lives. Additionally, Twitter and Facebook are the different forms of modern technology too. From the past few decades, science and technology has dominated our society and it is very likely that it will continue to increase its impact on our lives. Tools such as smart phones and games (online/offline) are drawing thoughtful attention for their learning potential.

What is Educational Technology?

Educational technology is the area of technology that deals with enabling e-learning, which is the learning and refining performance by creating, using and managing suitable technological processes and resources. Definition and Terminology Committee of the Association for Educational Communications and Technology (AECT) [1] has defined educational technology as the study and ethical practice of facilitating learning and improving performance by creating, using, and managing appropriate technological processes and resources."

Technology of education is simply defined as an array of tools that might prove helpful in advancing student learning and may be measured in how and why individuals behave. Use of technology in teaching can deepen scholar's learning. However, it can be difficult to choose the appropriate technology without forgetting the actual vision for student learning. Educational technology has entirely transformed the manner we learn and impart. With advancements in the field of educational technology educators and students are accepting innovative IT tools to produce improved learning experiences.

Why Educational Technology is needed?

With the information technology, educators can effectively customize the learning content as well as the delivery of instruction to fit the needs of different

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types of learners. This will enable institutions to better accommodate the different learning styles of individual students. As a result, in the near future students can opt for the most appropriate instructional format for their individual knowledge level. They can choose to go for face-to-face learning, blended learning, or even fully Online courses depending on their knowledge level on the topic. Although Educational Technology will not replace traditional learning completely, it will certainly enhance the learning experience and improve the learning outcomes for students.

Technology in the Classroom

Technology can add extra dynamism and enthusiasm to different subjects. Some important technology in the class room/educational settings are- Computer, Laptop. In the classroom settings, the most functional and necessary educational technology is computer and laptops. Computers are electronic devices that is use to view, store, send, and receive information. It also helps in the presentation of lessons but also with management and organization. The computer is used for preparing lesson plans, completing home-work, checking email, making posters, preparing letters, and so on. It also functions as the key connector to other technology, such as projectors, cameras etc. Computer enables the teachers to demonstrate a new lesson, present new material, illustrate the use of new programs. Teachers can also help their students to learn complicated applications on these computers as a way of making it easier for students to learn and also make the teacher's job easier.

1. Projectors. Multimedia projectors are common in many of today's classrooms. They are the compact devices that project images in high resolution. They can project images, presentations, or videos from a computer, laptop, or document camera onto a screen or wall. Any Word documents, power point presentation or any website can be displayed easily in projector. Mainly five types of projectors are used,-

- Slide projectors.
- Video projectors
- Overhead projectors.
- OPEC projectors.
- LCD/DLP projectors.

The projectors are the gateway to all technology used in the classroom because they help create a visual connection for students from a variety of devices and programs. For example, if one wants to create a presentation about the water cycle, the use of a projector would be highly beneficial. Rather than having students gather around one's laptop in hopes that every student can see and hear the presentation, the multimedia projector can display the presentation on a larger scale so that all students are able to view the information easily from multiple locations throughout the classroom

2. Digital Microphones: Big classrooms are characterized by endless noise, so teachers can resort to these wireless digital microphones. The microphone will transmit the voice to the loud speakers. With the help of microphones, students are able to hear their teachers more clearly. Students can learn better when they hear their teacher's voice clearly.

3. Mobile Devices. Mobile devices such as smart phone, i Phones can be used to improve the understanding in the classroom by providing the possibility for teachers to get feedback of their students. Mobile learning is becoming so popular. It is very much similar to e-learning. Based on mobile phones, M-Learning (mobile-learning) is convenient because it is quite handy. They are [illegible] with most of the software as in PC. A student can access academic information like assignments via an educational mobile application. There are many mobile apps like "PIAZZA", to access course materials and also to post questions about specific subjects. All this can be done in the classroom or outside the educational settings.

4. Smart Interactive White boards. An interactive white board is basically a screen boards which have touch screen functionality. It interacts with the control of computer applications. These enhance the experience of [illegible] by showing anything that can be on a computer screen. It makes [illegible] students can draw, write, or manipulate text over [illegible]. They are electronically powered, with switch on off button. Teachers can also save work for later use.

5. Document Camera. A document camera displays real-time visuals on a larger scale. This is perfect for showing examples of giving handwriting tips, how to complete a math work, or simply reading a story while students watch from their seats. The camera is connected to a multimedia projector. When a book, worksheet, or science experiment is placed under the camera, it projects onto the screen live and in action. It is similar to the cell phone.

6. Websites and Blog. Now creating a website or blog is very easy task. Using Word-Press or any other content management software, one can make its own website. Teachers can create class blogs were they post assignments. If the school has no website sever to host these class blogs, the teacher can use free website hosting services like word press. Com or blogger. Com. Via these platforms, the teacher will create a blog under a sub domain of that host. For example, match class. Word press. Com, so students will find all academic assignments via that blog. It is very easy to manage and post data to a blog, because they have simple HTML editors.

7. Online Study Tools. "Dynamic Periodic Table" (ptable. Com) is an example of Online study tools which can be used by students of Chemistry. "Foldit" (fold. [illegible] can help biology students to understand easily the basics about

proteins. Similarly, "Mathway" (Mathway.com) this helps math students solve math challenges, students can simply select a subject and hit solve, the equation will be solved by the tool. These academic tools can enhance the learning skills of students.

8. Podcasts. Podcasts are a new phenomenon in classrooms. Pod casting allows anybody to publish files to the Internet where individuals can subscribe and receive new files from people by a subscription. For a technology that only requires a computer, microphone and internet connection, pod casting has the capacity of advancing a student's education beyond the classroom. Pod casting can help [illegible] skills. Students will also learn skills that will be beneficial [illegible] such as communication, time management, and problem solving.

Benefits of Educational Technology

- **Universal Learning.** Sites like Glovico.org provides [illegible] the students to set up language lessons with a native speaker who lives in another country and attend the lessons through video conferencing. [illegible] as easy.
- **Enhanced Simulations and Models.** By using digital simulations and models teachers can explain difficult and complex concepts or processes that occur very rapidly or very slowly to show. For example, it is not possible to demonstrate biological phenomena such as evolution or many chemical reactions in the physical conditions of classroom. Many organizations have developed technologies for math, science and engineering education. Trained teachers can create activities with text, models and interactive controls.
- **E-books for Sustainable Development** Now, there is no longer need for books. Instead of carrying loads of books daily, students could just carry a laptop/ net book/ tablet/ e-book which will contain all their books, notes and projects. E-books hold an unimaginable potential for innovating education. E-books can help to reduce the deforestation as paper comes from trees. Hence, they are more Eco-friendly and less expensive. They weight far less than an average of 10 books and 10 notebooks that each student has to carry every day. Kindle and Nook etc. Are the examples of e-books that costs less expensive than 20 books, 30 notebooks and copies for every single student.
- **Access to Education.** By using computer and other connecting device

students who belong to remote areas can be taught and they can also fulfill their dreams. This has already begun in the U.S. but it should also begin in other countries around the world.

- **Epistemic Games.** Epistemic games put students in roles like city planner, journalist, or engineer and ask them to solve real world problems. The Epistemic Games Group has provided several examples of how immersing students in the adult world through commercial game like simulations can help students learn important concepts. Epistemic games are about learning a particular way of thinking about problems and justifying solutions fundamental ways of thinking for the digital age.
- **Connectivity with Society.** The efficiency of smart technologies in refining or sustaining the social connectedness of elder persons living at home has affirmative results in traits such as social support, segregation and isolation. There was emerging evidence that some technologies amplified the valuable effects of more outdated aged-care services.
- **Global Consciousness.** Social networks and video conferencing are modern ways of communication. They are the media that provide the current generation the [illegible] geographical dis[illegible] the [illegible] located in [illegible] countries [illegible] assessment
- **Computational Simulation.** The process of computational simulation and modeling involves can revolutionize the way educational research is done. It also needs less time from investigators and charges less money. In the existing model of research, months devote in observing, giving tests and trying to see if changes in specific model work and how to best implement them. It will still be necessary for researchers to go into actual settings. This just gives us more flexibility.
- **Continuous Feedback.** No doubt, there are many benefits of using technology-based continuous feedback methods to improve student engagement. Here instructor can guide and give continuous feedback for any assignment given to the students.

Unlimited and Immediate Learning. Technology of education has expanded the horizon of knowledge. Now student can get unlimited contents related to their topic immediately on websites. It becomes easier to learn anything quickly.

Indian Education System: Towards Educational/Digital Technology

- Technology is making the lives of students and teachers easier. Increasingly, Schools are adopting digital learning solutions.
- EDUCOMP solution is the first Indian smart-class making company. Smart class is basically the digital (content) library of course framework, multimedia 3-D content.

- According to the director of EDUCOM solutions ('K-12'), over 12000 schools in 560 districts has been adopted smart classes.
- Technology makes teaching and learning process very easy and interesting. For example, earlier the whole time was spent in making a picture of the physical structure of the microscope or any other instrument. Now, with the help of technology by using 3-D models, waste of precious time can be prevented.
- A technology firm HCL Info system has launched 'my tab' and leading handset manufacturer Micromax has also launched the 'Edutainment funbook' device too.

Conclusion:

Science and Technology is an important tool in solving problems related to the national empowerment, nature-environmental conservation, economic competition. Specifically, ICT, new materials, energy technologies, and biotechnologies are all key players. Schools are increasingly moving towards digital-solutions. Educational technology is playing the role of catalyst in making education accessible. Soon [illegible] pencil will be replaced by tablets, laptops and Ipads. The country would [illegible] development and would achieve the goal of Education [illegible] possible [illegible] devoted teacher who would make the appropriate use of technology in the educational settings.

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