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Impact of digital innovations on educators: A new way to explore their Learning Potential

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Abstract:

Digital technology has a huge impact on how we work, communicate, live, enjoy and everything in many spheres of life. Digital technology has a huge impact on our education system and creates various innovations education sector. Students engagement, assignments, field work, hands on experiment, practical learning, student teaching, review, evaluation and feedback are some of the most important teaching strategies, but digital technologies play a pivot role in education as it enhances teacher's ICT skill, their professional development, transforms pedagogies and develop their own software. Professional development of teachers enhances their ability to use ICT tools to access online resources and for interactions and collaboration with students. Innovation requires the necessary skill, an approach towards empowerment and a lot of energy. Innovation provide scientific learning content and affects the relationship between teachers, students and communities. Innovations in education means change and what can a teacher do for the students in best way. New things are happening in different field of education such as research, creativity, Idea, cognitive development, inspiration, inventions, concepts and technologies.

Keywords: Academic field, Digital technologies, Education system, Innovations,

Introduction:

Innovation requires the necessary skill. Its main purpose to empower. It takes a lot of trust and energy to use new ways of organizing things, rewarding people and communicating. Innovation is a very broad concept. New invention is an idea, practice or thing that is perceived as new by an individual (Rogers, 2003). Innovation leads to an improvement. It has been clarified that innovation is the use of a new tool or method that changes social behavior, which creates better or more effective values that is better than its predecessor (Kirland and Sutch, 2009). New innovation is a modified change that leads to continuous improvement (Christensen, 2003).

There must be three elements in significant educational innovation or process in practices

(Fullan, 2007).

- The use of new device material (curriculum items are technological).
- The use of new teaching methods (teaching strategies or activities).
- Mission of faith (pedagogical assumptions).

The use of technology in content teaching is one aspect of new learning environment but it is not the only one. The use of Technology as we know, in the 21st century internet, social media, online applications and variety of ICT tools can also serve as an intermediate and innovative process. The innovative practices- concept, tools, methods, processes, systematic thinking are not easily accessible without the knowledge base of educational professionals.

New innovations that are supported by technology are key component in increasing the learning process of educators. New inventions that support ICT in the education are defined as a pedagogical solution and means, support for the shift from traditional ideas to emerging pedagogical approaches, based on our current understanding of learning, such as promoting learner- centered and constructive learning and the acquisition of lifelong learning skill (Kozma, 2003).

Information and communication technology (ICT) enabled innovations for learning are considered as in depth new ways of using and creating information and knowledge made possible by the use of ICT. Massive Open Online Courses (MOOCs), has emerged as a promising way to provide higher education in an open and online mode. MOOCs provide widespread learning environment in India which holds the power to proclaim education to everyone and everywhere (Ansari, 2017).

Digital innovations and learning potential of educators:

Teacher learning in India has been largely traditional especially with a slow pace of modern practice. Modern Education technology (ET) has the potential to help the teacher in learning program to overcome the challenges, you have faced over the years. Educational technology is an inevitable part of the education system and changes the teaching and learning patterns at all levels (Nautiyal, 2015)

In the education field, educators are constantly striving to improve their processes, the quality of educational program and the universal learning environment. These programs contribute a significantly to the development and well-being of the students.

As the great philosopher "Plato" said "necessity is the mother of invention" digital transformations as a new ways of education, making the processes and products digital to improve the teaching and learning skill for everyone involved. The teacher will therefore need to prepare for the changed tasks and skill set for future teaching that will evolve the high level of information and communication Technology (ICT). During the current transformation, an educator continues to improve his or her action as the digital transformation allows them to access important input advice, vision across the country and world. This is only due to the provision of various learning

management program offered by Google and Microsoft. Zoom, Google meet, Facebook, Twitter, Instagram increases the engagement between educators and students as a result of which, educators currently have a world of knowledge and connections at their fingertips.

New educational Innovations should not be limited to technological innovation but should be used in a different way for the benefit of both teacher and student. Innovations must be relevant, personalized responsive in the academic environment. In the present context of education, innovation is not limited to students and teachers. Many communication app, survey and relevant innovative program allow the parents and guardian to keep in touch and lead to greater environment and engagement with teachers, their wards and school authorities.

Technology is an important component of innovations but the involvement of learners (students, teachers, parents and community members) play a vital role in the success of these innovations.

With the advancement of technology, support for teachers, the business entrepreneur, the development of a comprehensive education system including quality teaching, access to new tools in the field of education, educational development is a strong necessity in the current epidemic situation. Proper exposure of these systems, can only help them to understand how to use these tools effectively. Teacher's attitude and ability are extremely crucial for the successful adoption and application of educational technologies.

ICTs has recently become in a very short time, one of the basic building block of the modern society (Daniel, 2002). The integration of ICT and pedagogical skill play an important role in teaching and learning. The new Innovative use of ICT overcomes various barriers such as geographical, socio-economic and cultural constraints to a great extent (Harris, 2002; Chatterjee *et al.* 2015). The introduction of ICT in education mainly involves the expansion of digital literacy. A large number of ICT tools (Word Processor, WiKi, Kahoot, Google class, Google slides, Google form, Canva, Pikochart, White board, Prezi etc.) improves the quality of education and redefines the traditional mode of learning to be more effective and enjoyable. In India, from the last two years, there has been dramatic increases in live virtual classroom, at different levels of learning. With the use of technologies such as, cloud, virtual data centre, there is a strong possibility for technology to be integrated with the educational industry. The use of smart board, teachers blog, inclusiveness of socialization in online teaching, creating real life example to facilitate learning, flipped classroom teaching, cloud computing and teaching through 3D printing technology, artificial intelligence, text to voice, voice to text messages, Google translation, teaching video, slide show presentation, multimedia, podcast, virtual tour, and Gamifications are some of the Innovations.

MOOCs have emerged as one of the most potential tools for providing quality education and extensive training to a large audience base, world & wide (Ambedkar, 2014; Chatterjee, 2014). It

reaches a global domain of student. It connects a large network of students, scientists, professors, scholars and educators.

The Internet plays a vital role in (E-Learning). E-Learning is a combination of learning resources and technology to provide high quality of electronic platform, such as email, educational technology, WebEx, Skype, Facebook and telegram are widely used World-wide. E-learning is defined as acquisition of knowledge and skill using electronic instructional materials such as computer, mobile and internet based courseware and local and wide area of network. (Mathivanan *et al.* 2021; Varekar, 2021). E-learning can be considered in two stages. The first stage is educator level and second stage is trainer level. Elementary and higher education comes under first stage. The second stage is used by companies and businesses to train and develop their worker or employee (Joshi *et al.* 2021).

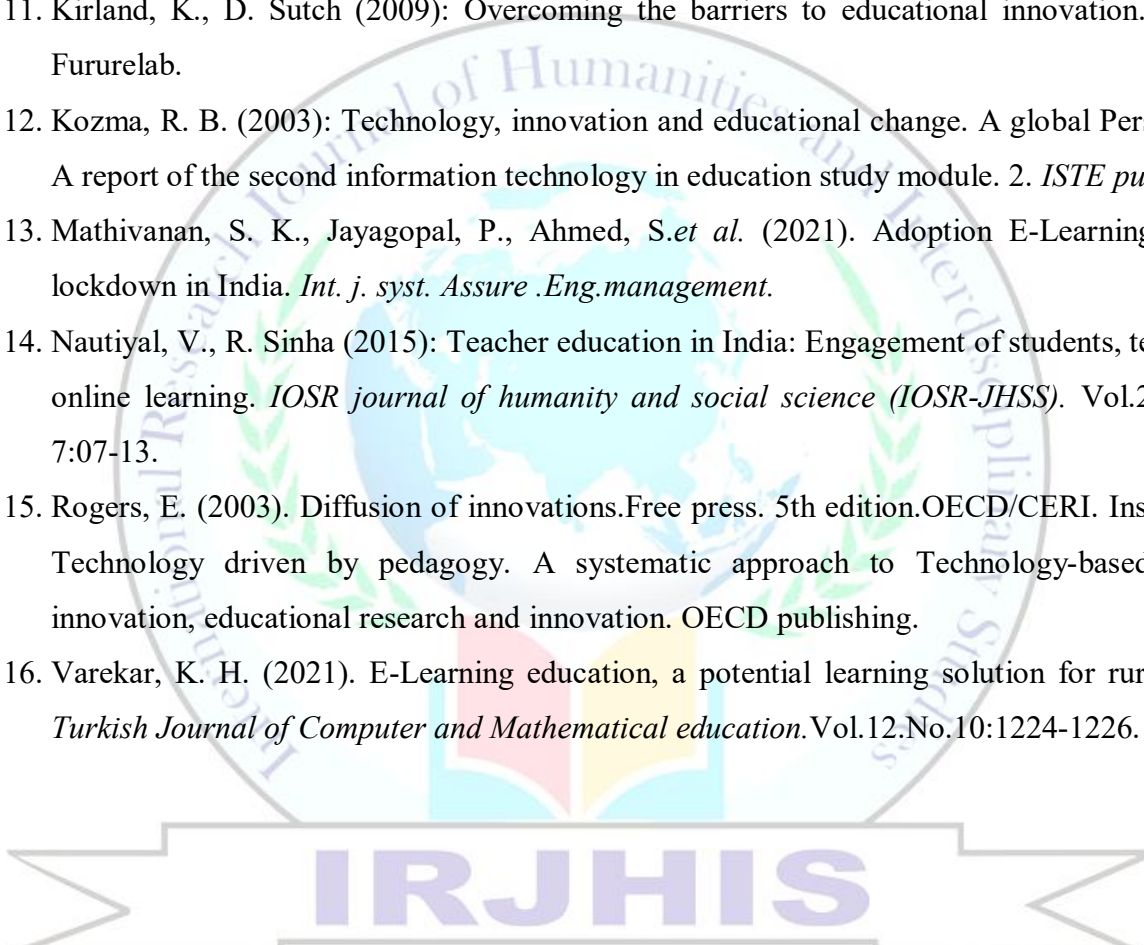
Conclusion:

Digital technology has benefitted students and educators. Professional development of teacher is a long-term process. Innovation in teaching-learning such as ICTs and MOOCs can be a practical and in-expensive solution to increase educators expertise and help them to face the challenges of the future online education system. ICTs contribute to high quality education as they have potential to increase motivation among educators, students, support active in-class and out-class learning environment for student and connect them to many information sources. Due to ICTs, educators can produce and modify resources quickly and easily. Educators as the driver of innovation in digital pedagogy have to discover how to integrate pedagogy with technology for high quality independent learning.

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