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Redefining Education with Technological Integration: A Paradigm Shift

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Abstract: There is a paradigm shift from the traditional method to modern methods of learning and newer pedagogies growing in leaps and bounds. The facilities for online learning have grown enormously in present years. This digitalized global era has marked a renaissance in teaching learning process. Fascinatingly, there seems to be different ways to contribute in active learning. Instead of focusing on teaching, there is a strong and healthy shift to focusing on learning. The learning paradigm focuses on the efficiency and effectiveness of the learning with the new information and effective technological methods. The focus is learner oriented and user friendly. Collaborative and co-operative learning environments and learning building blocks are the buzz words. There is a high demand of adaptable, flexible and open learning. To cater to all these Multimedia has been harnessed. E learning has thus become part of holistic, ongoing and continuous learning solutions. It is being blended skillfully with traditional methods to deliver cost-effective, personalized learning solutions that integrate effortlessly into our lives. Digital technology has altered how culture society relates to information and knowledge.

Keywords: Technology, Redefining education, Paradigm shift

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Introduction

There is a revolutionary paradigm shift in education. The earlier period of dedication towards the teaching is shifting and focusing on learning. The pedagogical paradigm often focuses on enhancing the amount of information; the learning paradigm concentrates more on the effectiveness and efficiency of the learning process with respect to what students know and what they can do with the latest knowledge and information. The educators are looking for effective ways of moving from a cliché mode of teaching delivery to the creative and innovative mode of learning and mastering student content material. It's a paradigm shift in a teacher-centered mode to learning-centered mode. Recent trend affecting education is a change in approach to enrichment and pedagogical support for students. Integration of technology in education has given a new edge. Educational Technology principles are the roadmap to teaching-learning effectively and growing efficiently in an upcoming digital era. In this digital era, we need to develop rethinking on our teaching pedagogy instruction, curriculum, and training. Previous educational models will purely not sufficient for anyone. The innovative and creative technologies have put on stress to instructive and educational practices as well.

Technology in Education Vis-à-vis Educational Technology

Education of Technology and Technology in Education are common phrases that are truly puzzling to many. Technology in education is frequently referred to as educational technology that is a difficult integrated system linking, procedures, people, ideas, devices and organization for analyzing problems and devising, evaluating, implementing, and managing solutions to those problems concerned in all phases of teaching-learning. The term Technology of education deals with the methodical function of the systematic knowledge of the processes of knowledge and learning that each being has to pass through in order to obtain and use information. Today education is almost unimaginable without these technologies. In hardly any duration of the computer and internet will almost definitely be in a similar class. Few people consider educational technology as synonymous with technology in education the use of technology as "tool" to increase the education and knowledge process across all focus areas. In this context

educational technology deals with learning and teaching with technology. Some other terminology like information and communication technology, instructional technology, communication technology etc. are also termed in the bigger context of educational technology and technology in education that creates to puzzle to all. Current research in educational Technology discovered a number of significant concepts in unfolding teaching and learning in the digital age as the globe is transforming into a global village with the use of the Internet (A. Collins, J.S. Brown and S.E. Newman t.1983).

Technology Transformation

Technology advancement has propagated a new form of learning and conversion has arisen. Now academicians have additional choices to engage students in a different form. Executive Director of The University of Texas System's Institute for Transformational Learning Steven Mintz highlighting the future of higher education says "much higher levels of interaction through collaborative learning, as well as animations, educational gaming, immersive-learning environments, and hands-on simulations" (Mintz, S. 2013).E-Learning has moved out with unprecedented speed, pace and momentum. Conventional glossary, and terminology has been enriched with words, phrases and acronyms, such as Microlearning Mobile Learning, blended learning, Virtual Reality and Augmented Reality, HTML5, Tin Can API, Gamification, and MOOC, and day by day there is an innovative and latest E-Learning trend and a new E-Learning knowledge have been developed, nurtured and created. The global e-Learning market, according to a report has risen by 23% till 2017. The request for Learning Systems will breed from $2.65 billion in 2013 to $7.8 billion in 2018.

Different technological platforms have been developed to support educational programs like MOOCs, LMS, Gamification, Blended Learning, Microlearning. Recent development and advancement in the field of distance education is the arrival of Massive Open Online Courses or MOOCs which aim at providing enormous involvement via open resources available on the internet. Provided by major and prominent Universities and other institutes of higher learning, it focuses at providing quality education and certified courses to students, teachers, professors and academician using webcast, videos, animations, graphics, web-tutorials and any other resources which can be availed on the internet. The cloud-based learning technology offers an innovative way to convey education as an online service accessed from a web browser. The trend is rapidly

evolving into the finest learning platform for information and data storage and exchange in educational organizations and institutions by using "cloud-based" applications. Gamification is the process of using game thinking and game dynamics in order to connect audiences to develop logically and rational thinking. It is not the latest trend, but rather one that will positively progress. It's a controlling device that enables technological innovation, develops student/learner skills, crafts behaviors and enhances problem-solving. <u>Microlearning</u> is also has become the latest and innovative trend. Organizations are adopting this latest trend of delivering precisely designed object targeted, no-nonsense learning bytes. Blended learning or hybrid learning is the expressions commonly used to for education program which combines commonly online digital media and classroom teaching tools and methods.

Video has experienced revitalization in learning, predominantly through the rising tradition of YouTube and initiatives such as TED Talks. Purposefully integrating short video and motion graphics into e-learning solutions can generate better rendezvous. It can provide the finest practice examples and quickly learned and explain concepts in an unforgettable, enjoyable way. E-Learning is budding into a major component in providing a range to constant learning. It has transcended space and time. Learners have added suppleness in opting up their own course based on their own skills and aptitude. They can access anywhere and anytime. These have unwrapped wider avenues to each and all kinds of the individual from all walks of life. In this way now pervasive and holistic nature of technology integrated learning has brought a paradigm shift in a conventional way of teaching-learning method.

Technology enhanced learning curriculum

Technology and Learning are no longer measured as instructive rivals; they are progressively more considered among academician as synergizing and companionable each other. Learning has penetrated the life of people. We cannot imagine life without technological interference in each and every sphere of life. The youth of today's generations may not visualize their everyday routines exclusive of different bits of technology. Now the question arises that how they can exclude technology in their learning? Up to some extent researchers have the same opinion that technology as such cannot get better enlightening and educational processes, but it may activate and facilitate the use of creative and innovative methods that can enable learning more effective and innovative to learners. In knowledge economies organizations need to educate and train

anyone, anytime, and from anywhere (Govindasamy, 2002). This is related to coaching and educating the right individual with the appropriate skills in the appropriate time, i.e., well-timed access to the essential resources. Developing a technology-enhanced curriculum can open many attractive innovative, opportunities and freedom for academician and course organizers. Enhanced technological opportunities to joined various platforms one together to get the desired result.

The curriculum must be designed as per the requirement of the present scenario. It should include the vision and mission of the organization to achieve its goal. The content of the curriculum reflects the learner's attitude and value of the organization. It should have a learner-centric approach which provides the best and easily accessible learning platform to the learner. It may be innovative and creative in nature so that learner should not feel monotonous. Feedback should be ensured to measure the connectivity of technology with learning. It would be more feasible and useful when it is related to real life experience. Curriculum authors attribute to create effective and efficient instructions strategies. The distinctiveness of an efficient action design described by Macdonald & Black (2010), claiming that efficient activity design makes use of interaction in an online community when participants have a sense that they belong to an active group of fellow participants. Technology integration has become a vital part of each and every individual personal and professional life. It has become medium to access learning services worldwide. Hence curriculum is the crucial object for study and research. It's a common phenomenon that information and knowledge do not survive if not supported by technology. A technology-enhanced curriculum is the need of today's requirement.

Paradigm shift for academician

There is a paradigm shift for academician also. Education institute is empowering their teachers and professor with new age tools. Many academicians advocate the improvement of learning with technology (Hoffner, 2007; o'Bannon & Puckett, 2007), while a few others are anxious about the effect of the latest technology integration into teaching and classroom. Several academicians may agree that "technology is replacing teachers". Integration of technology in the traditional classroom may be a herculean task but it is the need of time. Academician plays a vital role in making decisions concerning the make use of technologies in a course, but the technique engaged need to be learner-centered. Integration of technologies in the classroom is

not as effortless as it may appear from the first glimpse. As Govindasamy (2002) says, e-learning is one more way of teaching and learning, but all educational and pedagogical philosophy that pertains to conventional classroom delivery also reckon in technology improved and enhanced learning, though, they require to be complete to accommodate technological development.

Technology incursion into the learning process needs a completely diverse mindset from an academician. It also requires technical skills of an academician. As Fang (2001) says, an opening of technology improved learning causes trends that emerge to be powerful to build it a shift of paradigms. Creation of better quality contents is a herculean task. Kim & Bonk (2006) survey discuss a shift from conventional teacher-directed approaches to learner-centered techniques in online learning. This implies an additional dynamic use of association, case learning and problem-based learning in online learning. The diffusion of open educational practices (OEP) in learning indicates the alteration or transform of their institution cultures towards an open framework. Academic institutions require opening up their systems, pedagogy, and services to be able to survive with the upcoming challenges of a distance and open learning culture.

In the study of Paechter, Maier, and Macher (2010), the academician does not lose his significance in e-learning but is further esteemed for his proficiency, expertise, knowledge, and support for his students. Academician expertise in e-learning promotes students awareness, skills, knowledge, competencies and student fulfillment with the course. In the present scenario, academicians are becoming more of facilitators, instructors, trainers and coaches who are related with study resources as much as the enhancement of student' elevated thoughts process to crack intricate solutions. In the meantime, students have become more independent, to find out ways to be creative, innovative and organized. They are able to administer their valuable time efficiently and be energetic in their learning process by raising a query. They have evolved curiosity and captivating complete liability for their learning.

Conclusion:
Academicians have more tools and resources to present the content and learning experiences, and students have ample opportunities to employ themselves in learning. Learning and teaching have become increasingly effective with the involvement of technology. Technology in different forms, latest and obsolete or uncomplicated and complex, can be effective tools that craft

individuals reorganize their conventional knowledge, beliefs, and understandings. After the intervention of technology in education, the entire process has changed. Academician and students are getting expertise in different avenues of learning. Due to the availability of a wide range of learning platforms has a learning environment has changed. Organizations and academic institutions are designing their curriculum as per the requirements of a learner. Academicians are developing their expertise differently latest pedagogical approach. There is a paradigm shift in all the spheres of education with the integration of technology. It's the time to the paradigm shift in redefining education from conventional mode of teacher and learner-centric to technologically enhanced education.

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