

**EXERTION OF TECHNOLOGY AT CLASSROOM TO PROLIFERATE THE
INNOVATIVE PEDAGOGICAL SKILLS FOR STUDENTS' LEARNING.**

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Abstract

Technology grips at the heart of the globalization process; influencing education “At this juncture, Technology alters the mode of pedagogy and learning in vivid innovative education realm. Myriad theories are exerted and integrated this technology in classrooms more effectively. But, the implementation of it results out of both merit and demerit as per the usage of it. Learning proceeds with events, situations, etc. whereas technology targets over the innovation display of settings and programmes that are put the students merged in. Much endeavor is being executed to assimilate the technology in classrooms to enhance the structure of learning and teaching skills. The effective technology in education has transposed the visage of education and it has contributed opportunities for advanced education and jobs. The technology dislodges the educational hurdles and assist the pedagogues collaborate in exerting the educational technologies. It arrayed the classroom into digitalized which yields positive results with advanced digital learning items like interactive boards, smart boards, computers, etc., incorporating the instruction with constructivism. George Courus stated that “ The learning settings are like atmospheres where devices of knowledge-building are provided to churn out the art of understanding though which students have a team work and support one another as they utilize different tools and learning resources in their search for learning aims and activities for solving problems”

Keywords: constructivism, technology, digitalization, innovative pedagogical skills, educational enrichment.

Introduction

The new era assigns new challenges and duties on the current education. So, the technology arrays the classroom into digitalized which yields positive results with advanced digital learning items incorporating the instruction with constructivism. The application of educational technology requires knowledge from several areas: pedagogy, psychology, didactics, computer sciences, informatics... Because of this diversity, there are also different perceptions of educational technology, where every author defines the concept of educational technology, according to their needs. Jennifer states that “Teachers report that the introduction of technological systems emboldens student-directed learning and the acquisition of responsible demeanor” At dawn, everyone engrosses bringing the technology into classroom to stimulate the deeper understanding and innovative thinking adeptness among the taught and the faculty. The technological tools are usually applied at these current days towards the approach of alternate conventional mode of pedagogy to their course designs and syllabus to be completed with the educational theories and modes for fostering the quality of education. But, the pedagogues should hone how to use them acquiring the knowledge of computer sciences, informatics, didactics, preparation of PPTs, etc. According to Hew (2007) teachers need specific technological information and know-how for the purpose of using computer-based technologies in teaching”. Mr. George also commented, “Technology don’t supplant adept teachers but technology in the hands of adroit teachers can be transformational.” So, technology plunges at the heart of the globalization process; affecting education.” The exertion of Technology even proliferates its extent at post pandemic. Momentarily, the portrayal of technology remains as the key aid in imparting the education.

Technology At Classrooms

Gone are the days of using archaic modes of pedagogy and learning at these current advanced streaming aeons. An AI-powered content generation tool creates quality content in seconds. Mihai (2010) intends to exhibit the components of Technology that influence the complacency of pedagogues where there is wide accessibility of using it in varied ways. The techno-savvy personnel

aimed to identify distinct aspects that deter the use of the available technology, while also inserting motivating aspects in the targeted institutions. It was analyzed qualitatively the emerging patterns and sorted out the evidence that albeit pedagogues presented themselves with technology flaws in support from the institution are increasingly deterring. So, the Prime Members of the institutions should recommend and set clear implementation goals to the staff members, while dedicating themselves to prioritizing issues such as infrastructure, maintenance of hardware, and effective training opportunities, et al.

At this current generation, we dwell with unprecedented conveniences to communicate in authentic and compelling contextualized domains. So, the Technology has emerged as an integral part of our growth especially in education. Technology has also acquiesced a reciprocal relationship with pedagogy. The innovated contraptions of advanced invention assists the learners understand the course content and garner good results in the classroom. The technology in Computers and other educational apparatus have swapped the modus operandi of the pupil to extract the information, and communicate with people across the globe. Therefore, the institutions should cognize the technological appurtenances to enhance the pedagogical skills and the learning. The onus shoulders on the instructors at the institutions need to escalate the technological skills to be able to grasp the students' needs. This technology comprises in computer self-efficacy, internet self-efficacy, user attitude, and computer anxiety. The pupil may procure the information from all the corners pertaining to their intended subjects and may also have an interaction with varied experts.

At institutions, there is bounteous perplexity to be in sedentary position always with long, tedious lectures, so, the insistence of Technology crop up mandatorily. The amazing range of gadgets and devices, the education gains much, the devices like laptops and iPods, audio-visual equipment and software, the urgency of technology jaunting fast to the class rooms. The technology in this wireless planet is ever transitional and rapidly augmented where all the institutions should implement technology into their classrooms. There is a positive bond between a teacher's computer self-efficacy and technology integration in the classroom (Koh & Frick, 2009).

Classrooms For Embedding The Edu- Infotainment

Host of dilettante in software examined the ratification of technology and its fringe benefits with varied subjects of curriculum and overall impact of installing and using computer-based technology in the classrooms. The innovative change that has been perceived in positive direction by adopting learning environ- centered on the student besides the teacher. This is transpired because of replacement of the traditional seat-work with the use of computers as learning gizmos. The pupils are committed in meaningful activities of problem-based learning projects, extracting information for a report, or the preparation of assignments. "Students who indulges in the program of teacher training are not enough in the exposure of technology integration, but they disclose positive outlook while using technology (Brown and Warschauer (2006)

The previous static teacher-centered ambience where the taught act as just recipients of information from a single source has been catapulted into self-centered learner in reviewing and finding critique of themselves in a collegial manner and an enhancement in students' interest and with the subject being studied, with the intervention of technology into classroom. The teacher here clenches the role as a facilitator who leads the students to an achievable goal. Teachers manage the taught in a way to embellish in critical thinking skills and the use the technology as a learning appliance. They acuminate with practical choices of tools and media that will carve the students' learning dexterity, expressing adroitness and performing flourishing way which allows the students to metamorphose as assistants in the instruction process with their self-worth in turn envelops the confidence among themselves with decorum and dignified demeanor. The emerge of technology among the pupil's lives succor them to present all the tasks through mails at all times instead of the congenial allotted times at their institutions in their limited hours. The pupils often go beyond the requirements set forth for any given assignment and expose the accelerated growth in their academic arena. It has also been substantiated that technology bolsters the pupil to keep heed and better prepared for their offing. Technology in the classroom can also boosts up the students to brood, to enforce, and transmit anything in an exceptional way and memorize the things at ease. Technology in classroom exhibits the positive impact on the life of the students. It not only comforts to the pupil but

also to the teachers to impart their teaching. It curtails the hardship while delivering and manifests simple modes of learning to the pupil. At these current days, pupils are allured for the technologically advanced with gadgets like computer and internet connection at digital libraries and at home where they exert it in the right way. The technology favors the students to chase myriad issues at their studies where they have to contribute much time and not fixate over their studies to figure out the crystal understanding of the subject. At these current days, pupils are allured for the technologically advanced with gadgets like computer and internet connection at digital libraries and at home where they exert it in the right way. The technology favors the students to chase myriad issues at their studies where they have to contribute much time and not fixate over their studies to figure out the crystal understanding of the subject. Students can constitute projects and research in the class. They also associate with each other to invent something heftier than individual endeavor. Teachers today demonstrates the presentations and deliver the information on the screen with the aegis of technology wherein the students claim their answers for the queries to retain the information. Technology has also taper off the paper work like maintaining the track of attendance, attendance logs, report cards, exams, certificates, etc. Technology in classroom composes the students mastering the subject and other skills at pace, with the digital environ by adopting interactive teaching mechanisms. It has been transformed as a great boon to the classroom wherein furcating the information, deliberating ideas, interpreting, drafting and asseverating themselves of varied subject Albirini 2006 said that “ The aim of technology integration is to foster the quality, accessibility and cost efficiency of the delivery of instruction to the students. It also refers to benefits from networking the learning communities to face the challenges of current globalization.

Technology has become excerpt in the mundane life that renewed the groove of living. Clements and Sarama 2003, disclosed that “ Educational Technology must inevitably be integrated into classrooms and curricula. With the advent of educational technology in the classroom , education has chased with the challenges that teachers integrate educational technology in their daily work. “

Technology has an update design of communication, imported the globe of edutainment and edifies the children. The ventilation of advanced technologies like tablets, laptops, i phones, and e-books, the pupil access to the multifariousness of information at their fingertips and also intensify over the particular topic and learn in an interactive way. Engaging the classroom with technology can also infuse us fun by multiplying with varied online resources to the class where infotainment is compelled today at all classrooms. Teachers and even household men use technology to monitor their children's activities and vigil them and stay connected with all the kith and kin.

In a nutshell to express, to make the students more competitive in the global market, technology entails much into their classrooms

Adverse Notion Over The Usage Of Technology At Classrooms

Technology impacts even hindrances besides perspectives where a few pedagogues often glimpse technology as a distraction and a cause of disruption. They comprise the negative notion that this technology detracts the thought of the students. It also perturbs the learning ambience in this 21st century where there is a room for desecration of its usage. The minds of the juvenile dismantle the creativity with the application of technology in education. There are hurdles in functioning of technology at class rooms with immense piled-up information, time, and imprudent use of devices, legitimate of education, perfect consciousness and knowledge of technology. . A classroom is a terrain where pupil hit the books, erect and conceives. But the erroneous uses of technology in classrooms catapult the approach of learning, interaction. They devour the lucrative time with screens. Many subject faculties sense that the technology hamstrings the ability to impart effectively in the classroom. . They may also fritter away the attention towards the students as they persistently gape the screens. They often preserve the redundant and get decline of the update of necessary technology. Smart Boards, interactive whiteboards, Smart projectors, digital tablets, *inter elia* keep the teachers in dismay owing to the lack of perception in handling the innovative technological requirements that include poor performance of software programs with no immaculate training. The current education system is not apt to the technological era that we ride out now. Teachers are not trained in utilizing technology, and horde of students is not perceptible with how to use it either. This

leaves umpteen opportunities for educational institutions to benefit from the use of technology. Innumerable pupil do not ordain the best possible educational expertise owing to the ill-equipped technology at classrooms. No organization ensures that all students possess accessibility to the tools they need to achieve their fullest potential owing to their hurdles of economic position and some other impediments. No big wigs proffer a wide range of gadgets like laptop and tablet, computers, projectors, and other classroom technology equipment. So, using technology complicates the teaching and learning at class rooms. But, in contrary to the detrimental ideas. “Yang & Wang (2012) expressed that “these hardships like low connectivity, virus attack and printer- malfunctioning are a few exceptions. The institutions in the countries like Netherland, United Kingdom and Malta have recognized the importance of technical support to assist teachers to use technology in the classroom.”

Utilization Of Advanced Technology In Classrooms

India, the multitudinous earth with diversified nature possesses the clone in the proportions of the usage of technology at classrooms. As there exists divergent contour of schools with Government hegemony, Private Management Institutions, etc., under motley hegemony, the technology that is furnished at the institutions are also varied. As Young expresses that “ the process of adoption of technology is not a single step, but it is constant that fully boosts teaching and learning and also information resources. “

The analysis is acclaimed that access to technology diversifies among institutional types. Technology solutions such as tablets and smart boards are prevalent in fat- fee academies. It is espied that 74% of teachers in hefty-collected organizations access to technology like smart boards, interactive boards, screens, projectors, touch screen boards, but mere 2% teachers from no- fee institutions and 7% teachers from low fee ones proclaimed the insertion of technology. Moreover only 14% of teachers surveyed reported access to tablets, with the proportion of government institutions being trivial. Among the teachers were surveyed, mobile phones and computers were the most widely- used digital devices at 94% and 86% respectively. However, while 94% teachers reported access to computers, only 25% exposed they have access to function of computers owing t the lack of electricity or hardware challenges. 70% of the teachers expressed the use of internet while imparting the education to the pupil.

Disregarding the institutional type, teachers’ consent to use technology is immense. however, the technological training of teachers remains a critical chasm. Of all the pedagogues surveyed, 68% has not attained any training, 16% had accomplished training and 16% were self- trained. The survey highlights that compliance to use technology is much surpassed than the trained teachers (88%) than untrained teachers (53%). Furthermore, while an average of 93% teachers comply that technology is indispensable and assists them in classroom delivery, trained teachers are more likely to use technology for purposes beyond audio-visual presentations and, participating in online forums, grading assessments , student practice to lesson planning and tracking student data. Agbatogun (2012) rightly said that “ venturing into innovative policies, followed by the supplement of all the technology like hardware and software facilities, continued by readiness and skills of teacher should integrate into pedagogical process for effective results. “

The advanced technology that is being exerted by the institutions are Digital textbooks which have fetched a radical transmutation in the arena of education multiplying with higher education adopting the digital era. It is expressed that learning from plain textbooks in traditional classrooms is not exciting and would be outdated soon. Digital textbooks and Tablets are captivating the classrooms annulling the textbooks every year. Interactive whiteboards upholds the visual, auditory and kinesthetic learning styles, leading to consistent enrichment in the learning outcomes. They aid in teaching abstract and complex concepts to the pupil in an alluring and convivial way.

Remote learning through virtual classrooms revamps the education like never before. There are no snags but mere needs are a reliable Wi-Fi connection paired with apt mobile technologies. High quality of learning is conducive providing them access to educators or subject matter experts who are remote to them. So, education can be tailored to suit the exigencies of the students when divergent technologies like video conferencing, , pre-recorded videos, class forums etc. are clubbed together. Remote learning model also concedes pupil who can’t appear the classes. The other advanced appliance that is being applied is Interactive Gamification.. Gamification is the concept of

applying game-design thinking to offbeat activities that are being performed to the students which elevates the video content that are retained at ease. The other gargantuan thing in the education sector at this current period is Virtual Reality. It alleviates all the barriers and convince the accurate material before the students. Pupils are usually immersed and memorize the matter. The augmented reality also escalates the innovative ways to make the sluggish material into interactive through interactive digital mechanism like image, video clip, animated images, etc., wherein gives live-experience to the students and fosters the critical thinking and problem solving among the pupil. The emerging technology is the Block-chain technology which is appropriate to collaborate the information in a database. In the education sector, Block-chain proves to be very advantageous in verification of student credentials, examination management, , etc. Life-long learning records can also be managed using Block-chain for effective analyzing and tracking to understand the results better. Artificial Intelligence, also known as AI, is the latest buzzword that is permeated into educational sector also. AI has reconstituted the curriculums that are being implemented. There are distinct AI applications for education today that have made learning more convenient. Momson et al,(2010) eulogized that the development of information and communication technology, especially computers, a number of researchers are trying to vision the benefits and the effect of their use compared to older traditional learning. “

Conclusion

The paper affirms technology-based pedagogy and learning is persuasive compare to traditional classroom. The tools and apparatus brace an active learning arena that is enticing and effective for both the taught and the pedagogues which would enhance students' learning. One may curtail that the implementation of technology should be productive when mere teachers and students are adept enough to make use of it. Further, it is extracted that the institutional heads should stimulate the infusion of the process with constant maintenance. It has also been detected that the practicality as compared to theories are compelled to impart at institutions. The immersion of technology besides with pedagogy assuredly proliferates the competency of the country's education system which drives the global ranking of our national education and churn out the better work in the offing. The Government should haul the teachers' credence about the integration of technology to classroom to compete with the 21st century skills. It is also ecstatic to deliberate that the Ministry of Education, insights the importance of technology-based teaching and learning into the schools' national curriculum mandatorily as per the latest Education Blue print (2013-2025). One can perceive that Indian education system brings accolades with the exertion of technology into classrooms.

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