

A Paradigm Shift in Technology Enabled Education

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ABSTRACT

For the preceding age group, which isn't really that far back would say towards the way back 1990s, the only source of information aside from program of study textbooks were the colleges and public libraries. The knowledge base that one could mine through was restricted to the availability of books. Interested learners would be left with the sporadic interaction with mentors and experts taking the time out to help them. Since then, the turnaround time of information broadcasting has reduced in astonishing proportions to a few milliseconds in the current day and age, with no space travelled. The arrival of the Internet and our widespread adaption has enabled considerable advancement of learning with children and toddlers being more informed and aware than ever before. Now the foundation of this affluence of information and education is simply the screen on their laptop or tablet computer that they can carry around with them. From personal computers to Wi-Fi campuses, smart classrooms and mobile learning new age learning has observed a paradigm shift.

Key words: *Paradigm shift, Internet, Information broadcasting, Technology*

INTRODUCTION

The Technology had extremely impacts all facet of our life over the period of 3 decades. It had brought change the way we do the work, communication pattern, search for information, get connect with the people who are geographically dispersed, shopping health and fitness and get entertained. Amazingly the largest parts which had great impacts of our life, called higher education, had robustly remained fairly by undisruptive technology.

In general, many of the Higher Education Institutions, it had become easier for students to do research through online and as well as to find out plagiarize, contribute and be trained from each other. There are high end techno projectors, computers, Audio-Visual arrangement, smart-boards inside the classrooms relatively than slide projectors chalk and normal boards.

Even though the fundamental teaching-learning method remains mostly the same. The latest technology had not really interrupted the central part of advanced education.

The variety of proportions in advanced education, there are many phase where technology had expanded substantial access. The following content has a deeper study.

TECHNOLOGY IS REFORMING HIGHER EDUCATION LANDSCAPE

Nowadays the education are considered as a vast business process exclusively in higher education, hence the progression and workflow process are huge and vast. The automated workflow through ERP software had expanded extensive dissemination across the established higher education institutions across the globe. Hence the various process like curriculum planning and designing, students admission process through in person or online, fee payment procedures, teaching faculty and other resource management, training materials, learning notes dissemination, home assignments information, student's details tracking methodology like internal assessments, attendance percentage, progress are all automated using ERP software. Few years before student details have been transformed to the cloud with the support of technology. Therefore it is very much pretty to describe that the higher education process becomes modernized and mechanized with the help of technology, software's and internet to minimize manual error and maintain the efficiency.

COACHING METHODOLOGY

The following are the technology had used extensively into the teaching and learning methodology in many ways.

Knowledge Management Systems: Some of the reputed higher education institutions across the globe are using the various kinds of knowledge management systems which are digitalized and make easy in many facet and eliminates the physically handling manuals. Through KMS distribution of materials through digital becomes ease.

Lecture capture systems: Many higher education institutions are video capturing the lecture session of the trainer's and faculty and make it available digitally for the online learners and students view at their leisure time.

Online learning resources: Some of the high quality open sources like Merlot, MIT open courseware are available to the trainers, faculty and students. By using this resources the

trainers could able to empower and enhance them for the preparation of teaching materials. Online learning programs are offered by reputed higher education institutes such as MOOCs, Course Era, EDX platforms etc. The pedagogical methodology is also significant in teaching the online courses.

IMPROVISE IN LEARNING METHODOLOGY

In spite of the technology intervention the major determinant of learning efficacy ruins a stimulating and committed faculty are able to stimulate curiosity, attention and perseverance among the learners. Nevertheless many faculties create broad based impact and there is nothing that technology can do to deal with.

Flipped classroom: This methodology is useful to the students to review the course materials, classically comprehend and video recorded the lecture session outside the classroom environment and class room session is utilized to do case studies and solve the case problems. From this methodology, the traditional approach had been transformed and this methodology is very much useful to the students.

Gamification: The learning process through gamification is highly engaging the students and makes them to develop their creative thoughts. It would be helpful in the competitions, board levels etc. This methodology is not only supports the students to score the marks as well it enhances the student's creativity and problem solving skill.

MOOCs: Massive open online courses targeted at infinite participation and open access via the web. Participants are allowed for free access and unrestricted participation to any type of course on their own choice. MOOCs also provide platforms for interactive discussion blogs and forums.

Learning analytics: The significant usage of learning analytics is to critically examine the student's academic performance and those who needs improvement and enable to initiate to support them to achieve better outcomes. Learning Analytics tools is to spot the students difficulty in studying the particular units or assignments in the course. By identifying the problems, the tutors could able to make curricular changes or modify the learning methodologies to develop the learning part of the students. Through LA tool, predict the future

student performance, Intervene when students are finding difficulty in learning, personalize the learning process and Adapt teaching learning technique.

THE POTENTIAL CLUTCH

The Promising spot is matured with impending is the usage of amplified and virtual reality to generate massive learning experiences that enable learning by working rather than listening or watching which can considerably improve the learning efficacy.

Gradually Big data and learning analytics is occupies a major hold in higher education and there would be tremendous scope in education society. The leading among the tools is an Artificial intelligence-enabled learning assistant.

IBM Watson Analytics is used to analyze the data smartly and visualize on the cloud that helps the learners to discover quickly about their learning patterns. IBM Watson supports the learners in **“Information Layer”**, **“Descriptive Layer”**, **“Predictive Layer”**, **“Prescriptive Layer”** and **“Cognitive Layer”**.

The Technology giants like IBM, Apple, Google corporations are working on major innovations in education society for the upcoming generations and it would be a thrilling phase of the future education.

CONCLUSION

The speed at which the Information Technology (IT) is emerging nowadays is obvious from the fact that it had occupied almost every aspect of everyone’s life. Technological progress can be harnessed for augmenting both expansion as well as quality of education

Current endeavor in this path has been essentially towards providing the IT infrastructure and network support to the institutions of higher education. By using technology in the classroom, both teachers and students can develop skills which are essential for this millennium.

Students would gain the necessary skills and they will be successful in the future. Modern learning is all about collaborating with others, solving complex problems, critical thinking, developing different forms of communication, leadership skills, improving motivation

and productivity. Technology could support and expand many practical skills, like building presentations, learning to distinguish reliable from unreliable sources on the Internet, uphold accurate online etiquette, and writing emails. All these are all vital skills that could be developed in the classroom environment. It is evident that technology will remain an outstanding role to take part in in the prospect of higher education. Students and learners of all ages have discovered that technology should be a powerful tool in the classroom, as a means of investigates deeper into the material, as well as building relationships with peer groups and professors from across the globe and the trend that will continue to manifest in the years to come. As the technology continue to progress, students and learners might be able to practice education in a richer and more systematic method.

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