Modern Technology & Professional Education

Gayatri Panda
Research Scholar, KIIT School of Management, KIIT University

Sumita Mishra
Associate Professor, KIIT School of Management, KIIT University Odisha

Sisira Kanti Mishra
Professor, NIST B-School, Brahmapur Odisha

ABSTRACT

Present day education system has gradually witnessed a sea-change with the advent of different technological advancements and has resulted into a vast change in its nature and deliberation. In fact, regards and recognitions are still due to those gurus for their endeavour of producing intellectual mass to the society. At the same time, there is an emerging need of having a modularized and personalized continuing educational system to cater the basic needs of individualized learning and to make everyone versatile and flexible with the prevailing updated technological advancements. Rapid development of technology has become the supportive strength of today's professional education advancement and has translated the entire education system more systematic and synchronized. Effective education system, backed by sound and structured technological support, largely addresses the entire community efficiently and brings everyone back to the mainstream of growth and prosperity effectively.

The present paper is a sincere attempt in this direction to validate the amalgamation of technology and education with due weightage to various ways and means applied in assuring right professionalism in education system.

Key Words: *Education, Technology, Professionalism.*

INTRODUCTION

In this changing scenario and deliberation. Undoubtedly, the advancement of technology, the education conventional method of teaching practices is no more in focus and is not considered as the sole attraction point. Different advanced mechanisms are introduced and used for learning and skill enhancement of learners. At the same time, we cannot totally ignore the traditional approaches followed as it has its own fragrance and need, but simply we have to reshape it in a new form so that it can be used to its fullest extent and to achieve the advanced requirements of both teacher and learner.

Different technological developments and advancements have forced to make the educational system a tech-driven approach. Different modern methods of teaching-learning practice are based on information technology, which plays an important role in developing a right set of system and creating a generation of tech-expertise. The traditional "*Gurushishya parampara*" has changed its shape of existence. At present the modern technology has led to the use of different devices in teaching process. Knowledge sharing is never an ending process, but it has adopted different mechanisms in its transformation, it has made the community more focused, transparent, advanced and adaptable in their way of learning. Continuous application of devices and process has a profound effect in the development of ideas, processes, methods, management and in other areas of education. We should also be sure that modern technology does not mean only use of sophisticated gadgets for teaching learning, but also we should make a clear and abstract view that use of different teaching techniques is a part of technological advancements and development.

The use of modern techniques and sophisticated instrument has not only paved a way for professional education but it has made it simpler and time bound. Now-a-days, people are more centric towards their effective use of time and achieving required result within less timeframe. A variety of teaching methods used to inspire and guide the students involved and show their creativity at par, which enables them not only simply learn the thing but also make them empowered to compete with advanced and developed societal needs and requirements. Apart from all, modern technology makes learner upto date in their knowledge base and implement it in the needful and required settings. By having a proper setting it can lead to a free environment which will make the learner to easily grasp the content and will create a deeper understanding of concepts, which cannot be simply an imaginary assumption but also actual perspective can be imbibed.

Studies indicate that, large scale teaching-learning need involvement of modern learning techniques and its application in its every sphere of existence. Newer technologies have started attracting the students towards their use and serve as an important tool of management of proper set of learning.

SCOPE

- This paper work is a clear and transparent observation evolutionary change of so-called modern technology with due expansion in the sphere of education, resulting to a dramatic transformation of traditional teaching-learning process to more tech-savvy, method and its application.

- This work is also an endeavour to know the impact of technological advancements on learners acceptable

and how it makes them empowered in their approach.

• It also throws some light on impact and use of different advanced techniques and methods aligning with conventional methods and how it works.

BENEFIT OF TECHNOLOGY IN KNOWLEDGE SHARING

Emerging technologies and different technical innovations and developments, has led to the creation of a competitive advantage over others. The emergence of new technologies has changed the so called conventional learning practice to be more structured and systematic skill enhancement process. Needless to say, this has undoubtedly been characterized as simpler and less time consuming mechanism for materializing the basic needs of knowledge, skill and wisdom with a meaningful and purposeful achievement. It won't be wrong to say, that in this present dynamic conditions, technology and education are simply two faces of a coin, one cannot sustain and develop without the other, both have a long and lasting relationship, the advancement of technology has made student learning more practical oriented and exposed to real-time problems. More or less, we can say that technological involvement has created a world of knowledge builders and there has a dramatic change in every sphere of life.

A number of advanced methods and techniques have been accustomed and used by teacher's community which

makes the students sharper in not only solving problems and knowledge gaining but also making them more centric to face current challenges. Different techniques are implied by teachers which has totally reshaped conventional method of teaching and learning, to more knowledge centric and future-oriented approach.

Implementing different such techniques as like project-based learning approach, problem-centric learning are those methods of learning which led the student to cross the four boundaries of classroom and adopt a learning approach to cultivate a spirit which make themselves fit to the real word competitions, which are enormous and varied in nature.

It won't be wrong to address the Present communities of learners as "Fast Learners" who were born and raised in a digital setting and which led to a different thinking process towards learning because of their exposure to technology. From the beginning of their knowledge building and learning, they are exposed to a varied of technological gadgets and techniques which make them more centric to this style of teaching and learning, and create a confidence of building a better future.

***Easy-Learning*:** Undoubtedly, technological advancements have led the teachers to make the teaching process simpler, quicker and transparent, which is not only helpful for the student community but also the teacher community. Physical presence of the teacher is no way an issue for teaching-learning process, now a day's

required content can be posted by the instructors being far away from the place, and the target receiver can access it without any obstacles and problems. It has not only shortened the place constraint but also it has shortened the time-constraint for the student mass. Students can learn the things based on their suitability, availability and accessibility.

Increases Student Motivational Level: Present day student community is undoubtedly computer-savvy and any practice leading to skill enhancement can very well be coped up extensively for a better possible tomorrow. Conventional schools of thought on teaching – learning theories had serious limitations of fruitful outcome matching with present-day needs; hence, the introduction of digital learning has gone a long way away from the so-called *gurukul* practice. Students know becoming more focused and are concentrative to learn things in a faster way rather in the traditional methods, where they use to wait for the instructor to speak on the topic, and learn the things. A number of gadgets and encyclopaedia has made the approach of teaching- learning more motivational and interesting. Even it has been found there has been a drastic change of teaching process in the classroom; which ultimately has increased the positive attitude of students towards the subject matter. By targeting the right receiver by the teacher we can not only make them learn, but also we can increase their interest level and make them more dynamic for further knowledge and skill enhancement.

Extended Opportunities for Learning: Traditional method of imparting knowledge was very cumbersome, student must go to the place where the teacher used to impart his knowledge on the subject, but with the advent of technological improvements and making education system more tech-savy, the opportunities of learning were many, the accessibility of the student to the course material has now became very easy and the method has became very simple "Press the button and get the material". Even students are able access the material by sitting in their home, any setting where technology can reach. It has been witnessed that place is no more a constraint for reaching to the required path and source.

Wider audience: Learning approach can be made open for one and all, by the proper implementation of technology, large set of audience can be targeted being par away from the sender, simply with the use of different advanced devices we can reach the audience, but where as traditional methods of teaching-learning has not such scope of existence. To target a large set of audience, even you need to focus on large no of variables, but it is not so we cannot simply target the target the audience but also we can be able to solve the queries posted by them, even they can make themselves clear to the learning topic and process. The audience can take benefit out of the requisite material in correct time and place.

TECHNOLOGY AND EDUCATION

Technology is such a wing which has expanded in every sector, and level of society, even it has expanded its flying wings towards education system of our country. Now, it has become an integral for every sector and institution to make an effective and efficient use of it, to make a better and approachable process of learning.

In the early days, the delivery of a person is confined within a class room, and four walls but now the concept has changed its shape and existence, now learning is more with the use gadgets and instruments, but we cannot say that technological advancement is confined to only gadgets and sophisticated instruments. Using of different methods to make the students learn is also an essential part of education and modern technology. Student Community has became very sharp and more advanced in their approach, they are always in search of new techniques not only simply using gadgets to make them learn but also framing correct usage of strategies to make them understand and gain optimum knowledge, and interest among the young and growing generation.

Gone are, those *"Paramparas"* where student-teacher learning was confined to simply chalk-talk method, but it is age of different types of sophisticated gadgets and not only simply gadgets but also using innovative tricks and technique to make the learning process more interesting and long-lasting approach.

Using Technological concepts and methods, in education has aligned with number of benefits in the classroom and also outside the four walls also, they cannot be confined to any number set but below mentioned are some of the benefits which has an effect on performance and improvement of students learning process.

Exploring the world: It won't be wrong to say that, use of technology in education has made the student more advanced and systematic in their learning process, now they are not making themselves confined to only text books available in the market or given by any institution, they follow different approach to explore the world all around "*Click the button get the data"*. Even not only students but also teachers have changed their search engine for any material know the doors are opened 24×7, to access any material for their learning process. It shows how far modern and advanced techniques has changed the thinking process and approach towards learning and doing experiments by the students, tremendous encouragement and excitement has increased manifold , by students they are very much developed towards a modern and tech-savvy society, not only face today's world but also making themselves developed for tomorrows challenges and risks.

Empower Students Community: Technological advancements has led towards making the students more interactive and approachable, they are no

way limited to only teachers talk, though a teacher plays an vital role but still students are now very empowered to make more advanced presentation and using multimedia tools for different talks and discussion, which led to differentiate it from traditional process to modernized method of education. It not only makes them advance but also feel them proud by the teachers when students mass such progress in their learning approach.

Expert Guidance form Modern World: Guiding the student in every step is an essential aspect of teacher's community, and it won't be wrong to say is it a never ending process. Because of that teachers are always at the top of the pyramid, but technological advancement has aligned everybody in a single chain. Modern techniques have made the students to change their traditional approached and make them smarter and sharper in their decision making and learning styles. Nevertheless, advanced mechanisms had broaden the style of thinking among the students and made them more structured toward learning and adopting right things at right times.

Go Global: Students approach towards viewing the world has been changed to a tip of a finger, and the cost factor is again an important determinant for making education system a more streamlined approach. It has been witnessed by different experts that technology has collapsed all barriers which create problems for learning and expansion. In the traditional the approach of learning is very monotonous and fixed to boundaries, but now students has started making them go beyond, no one can stop them reaching the destination within a few seconds it can be transferred from one learner to another. Even teachers are also able to make their materials access by all needful.

Self-expression: In the older days, students used to make themselves confined to notebooks and records to express, their ideas and opinions but in this present situation there has been alarming change in expressions, students are maintaining *"Digi Books"* to express their thoughts, ideas and share their knowledge for all, they have started creating different websites, and blogs to make them placed for one and all.

TEACHING PARAMETERS UNDER THE SHADOW OF LEARNING

In the conventional method of teaching-learning, what the teacher speaks is the sole source of learning for the students. But with the broadening of different sphere, the conventional methods are becoming more outdated in their approach by losing their own presentable capacity. Different advanced mechanisms has led the teacher community to express their in different approach and via different channels of presentation, as we know "a single picture speaks thousands words". To improve the style of teaching modern technology plays a leading and essential part of life. Expressing your ideas, views, thoughts through the help of modern gadgets is more accept-

able, so far as a number of teaching techniques are used by the teacher.

***Presentation Software*:** Software is different compatible discs which make the discussion more lively and understandable by the receiver, because seeing has more effect than listening. It stimulates the discussion from both the ends and also makes them go beyond the four walls of classroom. It also leads to more expressive even not only by the sender but also by the receiver, they can clearly note the things and memorize it in later on stages, which act as a stuff for further clarification and elaboration.

***Clickers*:** Students want a fast method of assessment towards their question-answer set, they are now able to wait till they will be corrected by the teachers, as it takes a long time and effort, and also a question arises of biasness, Instant results not only make them more forward but it also increases their level of competition among them and creates a spirit of challenge to prove their knowledge and aspirations.

***Information Presentation Tools*:** It transforms the students from conventional approach of thought process to scientific and advanced method of thinking and transforming ideas into presentations. It helps them to think critically from different point of view and analyze its application to different activities. Learning through conventional has become more monotonous and cumbersome process, but different tools it can be reached and achieved a different path of success.

***Crossing Four-walls of Class room*:** The main and sole objective any teacher community is to impart knowledge which is not only for exam point of view, but also it will act as a long-term knowledge building source, to make this approach more practical and expressive in nature, we should cross the four walls of the classroom, Sharing of ideas, knowledge expression will became more transparent and qualitative.

PERSPECTIVE OUTCOMES

Technology and learning have crossed different ladders, which has proven different positive outcomes, and framed a sphere of broaden world of knowledge building. Modern technology undoubtedly produces a revolutionary impact on learning habits and processes. Tracking different developments in modern technology, especially in generation of new ideas and new innovations are basically two major outcome of technology. The scope of different techniques are wide in nature and it has a number of effects on development of full potential of a student learning instinct for new concepts and handling varied of challenges and problems not only in professional but also in personal life. Technology and education has different positive consequences in streamlining, the traditional methods of imparting knowledge to the student mass, which led to a dramatic transformation in its outcome and building a break-through mind and creating a community of learners and knowledge builders who will ultimately

shape the society and nation to compete in the national and international forum. Continuous application of technology in education has enormous outcomes and has a profound effect.

***Skill Enhancement*:** Today' student community are more prone towards modern technology, undoubtedly everybody is not perfect in the approach of learning things in correct way and taking out right conclusions. Every set of student community should always be aware that technological advancement has enormous positive outcome, but at same time it has certain negative outcomes also, if it is not used in its proper way, it will lead to more adverse effect on learning approach and society also, so it won't be wrong to failure of right skill-set will make the whole process cumbersome and monotonous. But still, we cannot ignore that modern technology has reshaped and dramatically brought changes in the life of young mass, they are now able create, develop and frame several different projects, which creates and increase the confidence level not only presenting them in national boundaries but also representing in international boundaries also. Varied of skills have been developed by the learners such as problem-solving skill, Diagnostic Skill, Situation-handling skill and these skills has made them fit to compete in the market.

***New Idea Generation*: -** In the conventional method of, of teaching the sharing of knowledge is confined to oneway process approach, teachers used to impart knowledge, and learners are simply take a copy of it for future reference, which simply close all the doors of mind, but now because of advent of different technological innovations idea develop, generate and implement has became an essential parameter in each and every field of work. Student communities now became very much active participants in the learning process, as they every time face variety of new concepts and techniques which builds up their ability to frame a new world of ideas. Because of modern equipment, they are now able to get knowledge from eminent speakers even if who are far away from their destination place, being in a different coverage area, they can listen, record and store it for further learning, this process of reshaping method of teaching has not only open the doors of the mind of the learner, but also make them more challenging, Creative and Cross-border in their thinking and building.

***Creative and Innovative Presentation*:** Teacher is the key source of teaching, presentation of ideas by teachers and students is always a never ending process. But, with the development of different modern technologies, it has become essential to incorporate different creative and innovative styles of presenting their ideas, thoughts, and aspirations in front of others. Students are no way confined to text books for gaining knowledge; accessibility to different sources of databases has made them more advanced in their style of presentation.

Students are now able to imbibe different real and current upcoming examples which make the presentation more lively and helpful for others, it is all because of necessary developments in the field of technology. It has not only changed the style of presentation of speakers but also made it more responsive in nature. People are able to integrate different ideas and thoughts into a single package, which leads to more structured and systematic designing of information and targeting the right set of audience. Undoubtedly, modern technology has led to the use of different creative tools and techniques in the presentation by the teacher as well as the student's community which enhances the spirit of interest and participation among the target.

Experience and Exposure:- Modern technology has changed the level of commitment and made people more exposed towards new techniques of knowledge gaining and sharing, it has made teacher and students community more focused and acquire systematic and structure from all areas and sectors. Now, learners are able to expand their frame of gaining new concepts beyond crossing not only four walls of the class room, but also national boundaries. They are able to share their ideas, concepts, and processes among all the target audience with the ability to accept new and advanced tools and mechanisms.

Competency and Performance enhancement: Increasing emphasis on practical questions related to the dynamics of dissemination of the professional education system has focused more on the specific content of general ideas and developed a fuller perspective on a number of issues most directly relevant to the structured education system. Pilot experiments on such emerging issues have considerably convinced that these methods are now cost-effectively feasible and capable of promising to make substantial contributions to fundamental problems in elementary, secondary and professional education.

The efficient and effective use of modern education techniques has certainly made the entire teaching methods of education as more diversified beyond time and space. Modern education techniques have rightly demonstrated the process of liberalization of continuing education as a significant impact on ideas, forms, process, methods, teaching and management of education at large. Application of modern education technology in professional education, in particular, will be a driving force for learners to have an optimistic approach towards new things.

CONCLUSION

Developing a conceptual framework for a large sample of teaching material (hardware, software, curriculum, and teaching methods) has become an established operational practice in the present day scenario. The patterns of acquisition of knowledge and skills, and about the effectiveness of specific forms of teaching and learning have benefits of "novelty ef-

fects" with special expertise and sensitivity. E-learning is one such initiative in this direction to aim at making the learning and teaching process independent of time, place and pace. Sometime it is possible to break conventional classroom boundaries to develop open, low-cost and modern technology through the available modern technology. Therefore, broadly speaking, to sustain, we need to develop and implement new learning systems of learning science, educational technologies and innovations in professional education for the greater interests of community and for the society at large for a roaring success.

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