

# Role of Technology in Enabling the Students for Enhanced Learning Outcomes through Self Assessment

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**Abstract-** Information and communication technology focus on a progressive path for students to support learning. ICT is an electronic means of information processing, preserving, communication, capturing and disseminating. It encourages active and independent learning, own assessment and self- responsibility for new learning. Latest technology is progressively becoming more significant in teaching- learning process and also in the entire educational system. Objective of the problem was; to attempt for enhancing awareness about role of technology in enabling students for enhanced learning outcomes. The innovations that ICT has brought in teaching- learning process include: online student registration, online fee deposition, e- coaching, e- learning, e- communication, online results, quick access to variety of information, online published advertisement, no requirement of keeping hardcopy, easy networking human resources etc. Technology supports all kinds of teaching- learning and nothing can be achieved by neglecting the technology. Learning outcomes through self- assessment can be amplified and refined with the use of technology. It favors self- directed lifelong learning beyond the regular classroom processes. Ready availability of technological tools provides favorable circumstances for self- directed learning and enhanced learning and nothing can be achieved by neglecting the technology. Learning outcomes through self- assessment can be amplified and refined with the use of technology. It favors self- directed lifelong learning beyond the regular classroom processes. Ready availability of technological tools provides favorable circumstances for self- directed learning and enhanced learning outcomes. There are different ways in which technology supports learners to self-assess through self- directed learning, such as; e- Portfolios, video conferencing, Online Learning Resources, e- books, Open online educational resources, Social Networking, Twitter, YouTube, online publishing etc. Technology fosters a live contact between the teacher and the student through web-based learning including intranet, internet and extranet. Facilities of e- mail, online learning, CD- ROM, television, and audio- video tape are also playing an important role in teaching- learning process. Edusat technology is very powerful media for interaction of eminent persons and students. Technology has significant implications for the development and support for self-assessment by of self- directed learning. The use of multiple- choice and short- answer responses with computer- assisted assessments will continue for enhanced learning outcomes.

**Key terms:** Technology, Learning outcomes, self-assessment, ICT capability.

## **Introduction**

ICT favor students by helping them to comprehend and to become familiarize themselves with several educational resources, assessment approaches and problem solving attitude through research works, tests and creativity. ICT focuses on a progressive path for students to support learning by using information and communication technology tools and inculcating the role of these tools on learners as a whole. An ICT tool offers novel approaches of creating, storing, disseminating and using educational resources for maximum level of achievements. Newer ICT tools have caused schools to have their entire vision that features of ICT plays an important role in drive towards their whole educational plan. Latest technology is progressively becoming more significant in teaching- learning process and also in the entire educational system.

## **Statement of the problem**

Role of Technology in Enabling the Students for Enhanced Learning Outcomes through Self-Assessment

## **Objective**

Objective of the study was as follows:

To attempt for enhancing awareness about role of technology in enabling students for enhanced learning outcomes.

## **Information and Communication Technology**

ICT is an electronic means of information processing, preserving, communication, capturing and disseminating. ICT is any device and application used to access, manage, integrate, evaluate, create and communicate information and knowledge. ICTs include telephone, television, computers, the internet, mobile, radio, audio aids and audio- visual equipments. The use of ICT in the classroom teaching- learning is very important for it provides opportunities for learning community to operate, save, modify and retrieve information. It encourages active and independent learning, own assessment and self- responsibility for new learning. Such as correspondence courses and distance learning motivate students to continue using learning even after school hours. They can plan and prepare lessons design study materials and share of resources. This versatile instrument has the capability to engage students in instructional activities for increased learning, and also helps them to solve complex problems. Technologies used to communicate in order to create, manage and distribute information. Digital technology refers to applications used for communication and information processing functions associated with ICT devices.

## **Innovations of ICT for teaching- learning process**

The innovations that ICT has brought in teaching- learning process include: online student registration, online fee deposition, e- coaching, e- learning, e- communication, online results, quick access to variety of information, online published advertisement, no requirement of keeping hardcopy, easy networking human resources etc. All of these factors enhanced the chance of integration of ICT in teaching- learning process and even beyond the classrooms. Therefore, the teaching faculties ought to be trained in the pedagogical issues and

administrators in administration should be increased. Teachers and administrators are required to convince of the value of using ICT in their professional life.

### **ICTs as presentation tools**

Technology creates more 'learner- centric' classroom environments to support change and to extend existing teaching practices. The available tools are effective for information presentation. The use of ICTs as presentation tools through overhead projectors and LCD effectiveness. The students simultaneously view the same resources on computer screens while it may promote understanding of difficult concepts, such uses of ICTs can reinforce traditional pedagogical practices and divert focus from the content of what is being discussed or displayed to the tool being utilized. Technology aids the teacher- learner for self- learning and self-assessment in subject content. By providing access to updated and additional learning resources, ICTs can enable teacher self-learning in his/her subject area. Projectors, smart boards, television, electronic guided tours, whiteboards, is seen to be of mixed.

### **Technology assisted self- assessment**

Learning outcomes can be enhanced through technology assisted self- assessment. Teaching-learning facilitated through scaffolding instructions. Scaffolds are supporting elements which aid learners in enhancing learning outcomes. These instructions can be imparted by providing illustrations about concepts or modeling of expected behavior for inviting learners to participate in self-assessment tasks. Then gradually withdraw teacher's support to pave way for student's independent learning and enhanced learning outcomes. Technology supports all kinds of teaching- learning and nothing can be achieved by neglecting the technology. Learning outcomes through self- assessment can be amplified and refined with the use of technology. It favors self- directed lifelong learning beyond the regular classroom processes. There has been an increased awareness in the use of ICT in the field of education to spread it among pupil across the world. Ready availability of technological tools provides favorable circumstances for self- directed learning and enhanced learning outcomes. Easy access to technology and information resources is important in the context of self- directed learning. The concept has now replaced with online learning and personalized learning experiences. Schools are encouraging the teaching staff to facilitate such type of learning during the classrooms teaching and are recognizing the significance of self- directed learning for the objective fulfillment.

### **Technological support for learner's self-assessment**

The concept of technology for enhanced learning outcomes prevails in educational technology as change in the role of learners and teacher in the classroom. It can revolutionize traditional teaching practices by altering the way, time and place of learning. Latest developments in 21st century education such as; availability of internet on mobile devices and online learning opportunities have put additional expected learning outcomes for learners to take more initiative in their own learning. With these approaches, additional classes may not be required for direct instructional purposes. The teacher is more available to address individualizes instruction. There are different ways in which technology supports learners to self-assess through self- directed learning, some strategies for this purpose are as follows:

- **e- Portfolios:** These help students keep track of their own achievements and share them with others. They are free and easy to create; students create a container like, a blog, wiki or website, organize it and post their work.
- **Video- conferencing:** The classrooms are becoming global communication centers for free, by the use of tools like Skype. Students can discuss topics of their interest by connecting with experts or educators to learn from and with anyone around the world, to solve their queries.
- **Online Learning Resources:** Online learning increases the effective learning because ICT provides students with a great range of online available resources, relevant to their interest areas. These can support to assess own level of learning and the efforts required for improvements.
- **e- books:** Learners can learn effectively at own pace by visualizing the variety of content or figures or clippings repeatedly. Access is free for many of the e- books and those are easily downloadable. The students can assess their own quality of presentation on the basis of the way of presentation in the e- books.
- **Free Open Educational Resources:** Open Educational Resources (OER) are quality resources provided free of cost for learning. Through these resources students become able to learn different subject on their own pace. This may result in elimination of constant need for a subject teacher.
- **Social Networking:** Personal Learning through Social Networking form the core of passionate self-assessment for self- directed learning. These can be created through blogs, social networks such as, Twitter, Facebook etc. They facilitate collaboration which helps in self-assessment and self- directed learning.
- **Twitter:** Twitter favors the learners to create micro- blogs, through which they can connect with the people and share views on any specific matter. They can follow pupil, reply.
- to online friends and make their tweets visible to others. These comments make them capable to understand the realities and to realize their own position.
- **YouTube/iTunes:** Visual element of YouTube turns learning more powerful. YouTube and i Tunes are used by schools and higher education institutes to share content for free. They empower teaching- learning community to design their own learning and assessment.
- **Self- assessment:** Students get evaluated by themselves instead of relying on teachers. Students create videos, practice tests, share their work with people to get feedback for improved performance, and look for people's comments. On the basis of received views, the learners develop their own learning plans and assessments.

- **Online- publishing:** It can be used by students to share their ideas and work with real audiences beyond the school community. This may be possible through web blogs or social sites.

### **Importance of technology for teaching- learning**

ICT enables self- paced learning through various tools such as assignment, presentations, computer etc. which results in the more productive and meaningful teaching learning enterprise. ICT helps facilitate the transaction between producers of study material and it's users by providing updated content to enhance teacher's capacity. Technology fosters a live contact between the teacher and the student through web based learning including intranet, internet and extranet. Facilities of e- mail, online learning, CD- ROM, television, and audio-video tape are also playing an important role in teaching- learning process. Edusat technology is very powerful media for interaction of eminent persons and students. Integrated Learning Modules, pod cast, number of Web Browsers, U- learning, e- learning, Emerging Technology, M- learning have started making rapid strides in teaching learning processes.

### **Self-assessment as a driver for improving ICT capability**

Use of information and communication technology is contributing positively to the individual development and learner's future economic well- being. It motivates and engages by developing their skills of cooperation and independent working. Pupil becomes proficient in using digital technology and video clips to enhance their learning in a variety of subjects. Latest

Commercial software packages aimed at improving pupil's knowledge of specific subjects and integrated well into the cross- curricular themes. Learning improved through the use of technology in different subjects, which can be considered for self-assessment. Some schools attributed their enhanced standards in English in particular to their use of ICT for improvemen.

### **Conclusion**

Self- assessment provides us a clear understanding of the relationship between available technologies and learning outcomes. Technology provides access to connect with others people by exploring interesting topics and provides opportunities to link events across the globe. Latest technologies also permit for newer ways for classroom modernization. It has space for higher flexibility to learners for organizing their own resources, adopt learning styles by self, and study collaboratively or individually. Clearly, technology has significant implications for the development and support for self-assessment by of self- directed learning. The use of multiple- choice and short- answer responses with computer- assisted assessments will continue for enhanced learning outcomes. The use of multimedia materials for assessment tasks; to maintain records of student responses, to capture the produced material and to convey feedback will result in the growing use of virtual learning environments. The students are likely to be motivated to make use of online self, peer and collaborative assessment. The socio- cultural implications of using ICT in teaching and in assessment process are significant and which is a key component of learning technologists.

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## Weblinks

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