

## Educational Technology and Importance and its Role in the Management Effective Learning Process

Hamidreza Hatamikhbari<sup>1</sup>, Afshin Yarri<sup>2</sup>, Omran Badri<sup>3</sup>, Ardashir Shekarbigi<sup>4</sup>, Tahereh Ashori<sup>5</sup>

<sup>1</sup>Payam Noor University, Iran & MA student of Islamic Azad University, Kermanshah

<sup>2</sup>MA student of Islamic Azad University, Kermanshah & Salas Babajani Teacher Education

<sup>3</sup>MA student of Islamic Azad University, Kermanshah & School counselors Sarpolzohab

<sup>4</sup>Salas Babajani Teacher Education & Master of Educational Sciences

<sup>5</sup>Master of Educational Sciences & Tehran Art University

---

### ABSTRACT

The increasing volume of knowledge and information, Getting old, fast course, Rapidly changing societies. And the future is unpredictable, Supervised training necessary continuous Instead requires cross training, The CME also Requires new ways of learning, Ways by which one can An autonomous and independent Extreme life time of knowledge and use it to pay the claim, Hence the importance and necessity Abandonment of traditional methods and strategies In Education and Teaching The new educational strategies and procedures are clear In this regard One of the strategies of new training methods, Applying the principles and Improved knowledge of educational technology in educational systems. Given what was said The present paper is While explaining the true meaning of educational technology And the necessity of its use in educational systems, The most important barriers to the use of educational technologies Education in the country, Pay in schools and classrooms.

**KEYWORDS:** educational technology, education, educational systems, tools and teaching aids

---

### INTRODUCTION

Global developments in ICT The vast expansion of learning opportunities And access to resources, education and training has been So that the With traditional tools and methods It is not conceivable. Applying this new technology Not only enhanced and Of facilitating the teaching and learning And promote effective management Educational systems are. It has caused Concepts and principles in common In traditional educational systems The great change is achieved. The importance of and reliance on the book And materials of predetermined For every class, every course. How to evaluate teaching methods As well as assess the effectiveness of Exact learning and learning . Role assignments and values And periodic examinations. The relationship between teacher and student All the cases are Utilizing the information and communication technology Have changed. (2002, The Golbal Media.

### Theoretical Foundations of educational technology

Today, knowledge, education, Information collection refers to the theoretical In the field of education obtained And purpose of educational technology, Used to obtain the knowledge Close and systematic use of information And scientific techniques In learning situations. Within this definition, Technology education Resources include not only equipment and other work is The media, content, and also encompasses methods of training . Other words when you speak of educational technology The collection system And the tools for knowledge management Will appear in an educational system. In other words All processes in the selection And technological leadership based training tools Review and analysis are used The fit indices of educational technology. However, you should know No more than a few tens The term "educational technology" Its place Education in world culture Is allocated.

Before application of educational technology It is made with new and progressive concept, Planners and teachers The way to improve teaching Education and better outcomes, Educational materials and equipment The concept of "audiovisual" it would help. So In aid of this branch of education Educational systems, Applies only to the material And educational tools could be summarized. But today the term "Educational technology" And progressive concept evolved There is a plus And its field of interest Materials and equipment are not used solely for educational And so since The "educational technology" Much broader concept The past has Before anything else to clarify the concept And its application in the field today, Pay Sense of Educational Technology Can be "engineering education" can be likened Through which an "educational technologists" Can use the techniques he knows Plan to provide training While facilitating the learning process And accelerate its More effective And to be more stable And purpose of educational technology Necessity of utilizing various sciences Psychology is the science.

---

\*Corresponding Author: Hamidreza Hatamikhbari, Payam Noor University, Iran & MA student of Islamic Azad University, Kermanshah

James Brown and his colleagues In the book "Technology, Media and Methods "The educational technology that have been defined: Beyond the use of educational technology Tools of Educational technology and interpretation of complex parts It is different constituents And following a systematic approach to design, Whole process of implementation and evaluation. Teaching and learning using the specific purposes Utilization of research findings in psychology and human communication And utilizing a combination of human resources And inhumane in order to create more effective learning, Deeper and more lasting. Given the above definition Is also clear exactly The use of educational technology Using the means of education spending Is not synonymous. And so it should be noted Only to the use of tools New equipment training and support In order to fulfill its Effective and efficient educational system Is not effective enough And the true scene The old silent movie Horses and carts that the actor Close to the front of your car And also mounted on the hood is And the same way that The carts used This car uses, If we want the same structural Education of our production In classes full of plaster dust moved, Advanced systems use For example, Blackboard White to win Markers and chalk to make, Important in order to work efficiently The current education system we have done, Because in principle the shape Books and no classes That must change, But primarily the nature And educational principles And we look at the science, Lessons, classes and the like is That should be changed and modified (M., 2001, 18).

Of modern methods of teaching With the help of new educational technologies Stagnant and traditional societies, Gliding past into the present And was repeated in the future. In these communities the most prudent Solutions for education This was the last students to the skills Even today, while the other is equipped with sufficient The student will recognize that the present Soon because the environment will be lost here and now, He must learn To change direction and I predict that, Technical language to learn Plausible assumptions about the future And long-term touch Interesting in this regard In religious And religious culture There are also several recommendations Famous example of Imam Ali (AS) On languages.

He has stated that: Their children on the basis Education who have not trained, Them to another generation And are living in another world. (Ghaemi, 2001, 32).

However, the According to Dewey Today, while In industrial Emphasis on theory X, The emphasis on human relations And Theory Y, and Z has changed Yet management theory X In many schools today The intense Goodlad, 1984, p48)). That is still the dominant method of teaching In many countries And of our country is teacher-centered The overall appearance of the lecture, Using a fixed content of public works, General evaluation focused And the emphasis is on preserving and remembering Which often lack privileges The old methods of teaching And new methods is today (Behrangi, same, 29)

Active teaching methods Are ways the mental activity of students Stir the public needs to be in his. In these methods In addition to providing Various conditions To learning through And encourage students They established the And all educational and Messages Appropriate focus of interest And the children moved from Because essentially no change Learning behavior does not occur in Unless the urge And their natural inclination is derived from (Karimi, 2003, 60)

On the other hand Today, experts advise Educational and training issues are Approaches and strategies that Design curricula Be so That students Manufacturer and the manufacturer brought science And not only its recipient. At the same The motto of the present century "Less is more" Been suggested that this means that "Knowledge transfer to less And more ways to conceptualize Increase knowledge and production "(Khalkhali, 2003, p 4). Because in order to transform knowledge The ability to Students take an active role To play in the learning process. This means that should surround For information The textbook and Teacher lectures to confine This could be because the less Learned their New situations And to be real (booty, 2003, p 2)

Research results were In this area While confirming the influence Applying significant Educational technologies And quality improvement Part of Teaching - learning process are Suggest Unfortunately, the use of educational technologies Its real meaning, Not in our educational system Institutionalization has not traveled. As an example Rtva, Karin and Robert B. Sand The role of teacher creativity Have studied in class Believed to have been That teachers who show their creative behavior, Classroom environments To create such That boosts creativity. Such teachers Programs and teaching aids Use more than their counterparts And often attempt to make their tools And asking their help and training. Such teachers are able The lowest possible Most of them operate in. (medicine, 2000, 39)

And the results Ms. Zahra medicine (2000) Entitled "Strategies to boost morale Kashan and initiative of teachers ", as follows:

1. Most teachers in both primary and junior The role and importance of educational equipment In teaching are not familiar And only few of them make use of training devices.
2. Teaching aids The projector, overhead, video, Computer, etc. There are at most schools And such devices only Schools are found in slow-learning students.
3. Only about half of the teachers Both primary and junior During his teaching to make Educational facilities have.
4. Most teachers need training equipment Devices have caused it.

5. Most of the teachersAwareness of the role of educational equipmentAnd training of teachersConstruction of educational facilitiesThrough in-service training,Create and foster a spirit of innovation are considered.
6. More teachersPrincipal knowledge of educational equipmentAnd encouraging teachers B The application and construction of educational facilities being encouragedInnovative teachers andI have created competition among teachers.
7. SPIRITUAL material reinforcementsEducation officialsTeachers should reinforce the spirit of innovation and creativity.
8. Most primary school teachers and guidanceReinforcements wereAre not sufficient for the construction of educational facilities.
9. Only 18% of primary school teachersAnd 7% of school teachersFor the construction of educational facilities have been encouraged.

The resultsIndicate thatThat encourage teachersTo use new methods of teachingAnd out of the traditional methodsTeacher-centered and toCreative waysAnd reward outstanding student-centeredThe collective effortsOr individual studentsConsider that,Appropriate strategy toIn order to strengthen the spirit of initiativeAnd innovation are the teachers.

Obstacles to effective implementation Information Technology and Communication in educational systems Basically, any change and innovation Initially be met with opposition So basically, It makes available to order And concerns itself with the needs, However, the The obstacles and problems In this context can be summarized as follows: Lack of necessary infrastructure To take advantage of educational technologies and new And lack of financial resources and physical In this issue: For example, the While the scientific development of the markings Total interest-makers Information networks is Based on available evidence, Implications for information technology Schools and schools in And in circles And our conference Yet Matters to be considered decorative Unfortunately, lack of equipment A significant number of our schools Computer and Internet services On the one hand they Proper use of these technologies and the culture In our educational system Facts from other Are undeniable.

In this context Providing the necessary infrastructure For optimum use Of new information and communication technologies Educational and other new technologies Education and Schools to equip the facilities More should be considered. As Attention should be The physical structure of the class Can play an important role Creative play in facilitating the learning process. This means that classroom space should be arranged so That stimulate the creative forces The students. The visual stimulus In class, the picking table and chairs, Dedicated space for student activities And predictable environment for picking books Tools and training aids Are required in such cases That they should be given Based on different curricula They can be set (Sam Khani and others, 2002, p 108)

### **Institutionalization of traditional educational practices And the use of active methods Teaching and learning in the educational system:**

Of barriers in this areaBe suchLack of comprehensive learningAnd limited student learning The cognitive domainAnd data transmissionLittle attention to improving problem-solving ability in students,Lack of attention to all aspects of the personality of learnersTeaching-learning process,Lack of student-centered teaching methods,Limited opportunity to comment, Distributed and the Critic, Disregarding the motivation, Interests of student needs, Lack of dialogue and collaborative learning contexts,Foster creative thinking and critical thinking and analysis.And too much emphasis on competitive methodsInstead ofWhen using the new participatory teaching methodsAnd student-centered.Lack of cultureModern methods of educationAmong teachers,Students and their parentsAnd accustomed to traditional waysIn all three groupsAdoption of modern methodsAnd promote and expand themIs difficult.

Sufficient mismatch Most educational content textbooks With technological advances in science And community needs: Although education That should extend obligation to maintain institutional traditions, But it can not be changed And rapid changes in world society Ignore And takes them apart (UNESCO, 1999, p 29). In other words Institute of Education Purposes of establishing the dynamics of social changes desired Is forced to adopt modern methods. So it seems The main problems in our education In this area include: Inefficiency courses designed The content of some textbooksThey are not updated And new scientific findings And community needs are being disproportionately And individual needs of students Emphasis on maintaining the status quo and summary And in educational curricula.

**Inadequate manpower Specialist training in:** Results of studies conducted Indicate that One of the major obstacles to efficient educational systems, Lack of motivation, knowledge and ability to apply the tools andNew educational technologiesBy teachers and lecturers are to schools.Therefore it is necessaryBy trainingAnd information appropriateIn order to solve this problemThe educational system is necessary.In this regard, sinceThe success of any educational innovationIn EducationThis excludes a consent subject to innovations By teachers isBy the appropriate training.Involving teachers in designing programs And use theirPlanning,Culture of acceptance and embrace new ways of training

Established in them, Otherwise, it is natural Teachers feel that they That such innovations Endangers the security of their job And rape them as Domains of competence and expertise as their own.

## Conclusion

One of the most Characteristics of the present Increasing pace of scientific developments, Its technological and social. In such a time Web only change that is stable stable phenomenon, Human communities and organizations For survival, the dynamics of establishing constructive developments Forced to acquire in the future The new trends are Because, according to Toffler "Only by using innovative The change is a change for their guidance Future shocks that could damage Was spared And more human to achieve a better future "(Toffler, 1993, p 500). The Infrastructure "change" And "change" Interest and readiness to accept it, Otherwise the Does not happen, Predicted results with no And the resistance And defensive modes associated with. Another important point in this regard should be examined The theory is that Basically, any technology and technology Application of tools and efficient Each type of technology thoughts, Culture and social relations comes from the deep. Therefore, for effective and efficient utilization Of Information Technology, Especially in developing improved approaches for training, Review of educational policies, Reorganize the content, Manpower development, Effective curriculum design And changing cultural norms Providing for coexistence We are using modern technology (Srkarary, 2005).

And a final word Application of new technologies In our education system Expectancy increases efficiency classes Establishing a continuous learning Students Non-formal and informal learning Outside the classroom makes it possible. Therefore it is necessary Providing the necessary coordination And adequate arrangements in this regard, Enjoyment of the educational system Thus the interests of our country New technologies, we can create.

## REFERENCES

1. The Holy Quran
2. Nahjolbalagheh
3. Behrangi, MR (1991), teaching and school management, Ashkan printer, publisher, author
4. Toffler, Alvin (1993), future shock, translation Heshmatollah Kamrani, Tehran, printing Golshan Thomas, Jean (1989), global issues, education, interpreter Ahmad Aghazadeh, Tehran University Press
5. Goodlad, J. I., "A place called school: Prospects for the future, educational leadership"
6. Pharmaceuticals, Z. (2000), strategies to strengthen the spirit of And initiative of teachers of elementary and junior Kashan Construction of educational facilities, September 2000, the Department of Education
7. Sam Khani, Mhmadrby, world, Ramadan and Mortezaei, A. (2002), creativity and innovation in organization and management training, Tehran, Aspndhnr
8. Karimi, Abdulazim (1993), education inhibits creativity, Journal of Management Education, Number 10
9. Ghaemi, A. (2001), updating training, Link Magazine, February 2001, p 36
10. Majidi, Ardavan (2001), the superior, Tehran, publishing Cashmere Booty, Adel (2003), Journal of Educational Technology, December 2003
11. UNESCO / UNICEF (1999), innovations in school-based management, translated by F. Faghihi, school publications