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Research Article

Study of Intelligent Systems in the Department of Education

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ABSTRACT

With the coming of computers to human life, nobody would not dream it one day, that little box can be overshadowed all aspects of human life. In recent years, information and communication technologies have the greatest impact on human life, and the information and data is transmitted with an unimaginable speed to the farthest corners of the world. The human invention of Internet, which overshadowed on the world with giant shade of its umbrella, practically, the moving massive amounts of data are possible by pressing a button. By using of computer, this today world has turned into a world where has a key role and crucial to access and use of useful knowledge. With the Computerization of many of the current affairs, this performed the many daily things of bank by using of the Internet and communication networks at home, electronic learning and Virtual, no need to attend classes, the development and promotion of e-commerce, which is achieved by information technology, and is involved in the welfare of the people, organization, knowledge management and its information management, that play a fundamental role in transforming individual knowledge into organizational knowledge. And also the management of information and educational resources is very important in electronic learning environment. Because the electronic learning systems hold much information, so to create such environments, must be making in such a way that users can use the existing information, which are useful and effective. Education is the main element in the sustainable development of any country, and electronic learning today is the newest, the most effective and safest methods of individual and organizational learning.

Keywords: making of intelligent schools, the successful implementation intelligent systems, Individual factors, Technological, oorganizational structure of mechanics.

INTRODUCTION

Undoubtedly, the phenomenon of learning is the most important psychological phenomenon in human and fledged creatures. Because it is the basis for many of the things to makes people that distinguish psychologically from other creatures and to its species. Psychology is the learning of fundamental issues in the psychology that dedicated to itself

Research and numerous studies by scientists, and they are titled by the various theories. The importance and value of learning are exposed in humans when deprive us of all what have learned. In this case; although, in terms of physiological will be normal adult individual; but in terms of psychological issues going back to the childhood periods.

Making of the Intelligent schools is not installed the computer in it, just is a clever management. Making an Intelligent School is the basic strategies of a fundamental transformation in Education. Based on the national document of a fundamental

transformation in the Ministry of Education to make the intelligent schools and educational complexes, which will be conducted in three phases; Schools, teachers and families. The Intelligent schools are using the electronic content of teachers that cause to improve learning and saving time. And students acquire the opportunity to demonstrate their ability and create content [2].

Design of intelligent school:

The presence of human in the era of science and technology has changed the face of life on the planet that visualization of life without technology seems to be impossible for human of the 21st century. Global community is moving rapidly to the information. Extremely rapid growths of information technology make the residential world to become a small village of information. That can passed all the vast in a fraction of second and other languages, races and the latitude and longitude have no influence to access the boundless information of knowledge and science.

If we are not backwardness, we should be placed directly in the flow of global information and this is essential that requires to the modern world situation because of this reason, our children should also learn how to produce data in the intelligence community and how to use it. Design the Intelligent schools in this regard, is one of the requirements of our young population [7].

Definition of Intelligent School:

Intelligent School is an educational approach that integration of information technology and curriculum, which will follow changes in teaching and learning. In this approach, the teacher's role is as a guide and not a transfer of knowledge, the role of students will change as active, creative, critical and seek partnerships instead of a passive member and consumer of knowledge and evaluation system, as a process oriented rather than results-oriented. Smart School will seek great development in educational systems, so that students will be able to take information technology in all areas of education, such as, implementing classroom management and programs. The ultimate goal of enabling intelligent schools, trained the workforce is equipped with the skills of computer and information literacy that will enable them to meet the requirements of living in a world of new information. Smart School is a comprehensive and integrated approach. In order to "comprehensive" is to meet the needs of students with different learning methods and the use of multimedia tools (visual, verbal, aural and practical) will attempt to provide the field of all-round development of students' abilities. And because of this "Integration", which has replaced the use of information technology, by integrating the curriculum and ways of learning, the educational system can be attributed to the efficient and effective. The smart school model will require the active participation of students [3]. Intelligent School is a school of physical control and management which is performed on computer technology and the network. Most of the content course is electronic and its evaluation system and monitoring are intelligent. In such school, a smart student spends his time on issues of continuous forms, can be changed and developed resources and capabilities of their executive. And this is a point that allows school officials with regard to the variation, and increases the students' level, and prepares them for new information. - Smart School is a school to create teaching, learning environment and to improve the school management systems; so, is designed to train of inquiring students. - Smart School is an educational institution in order to the learning processes and to improve the management in case of structured system, which to be restored to the children; so, prepared them to the Information Age. Students in the Intelligent

School is responsible for learning and learning process. In this school, curriculum is not restrictive and will allow the students to take steps beyond their lesson program. In this school, teaching methodology is based on the student-centered. Emphasis on thinking skills and providing the teaching and learning environment is strategies and policies of the intelligent school [6].

The necessity of intelligent schools:

Research and Studies indicate, according to the characteristics of our, era which is the era of information, and the development of every country must be based on the centrality of technology [1]. The key of the development of modern societies is depended on the education. If education will involved in a theoretical discussion, and will continue dysfunctional ways and old ways; certainly, all of society will be met with widespread stagnation. Is in today's world, that scientific discussions and theories is short and is changing very fast, Is valid to guidance and lead with the same old methods of a huge machine of education? Are the tools and mechanisms available in the school responsive to the needs of the new generation? Are the goals of the modern world with non- modern tools and resources available?

Is student's feeling comparable when they of entry to schools with the when they leave?! Today's schools must be designed for the information age. The first step is in this direction to multimedia the schools. The Smart School Is purposeful and practical suggestions for implementing the most advanced and the modern teaching methods at the current state of the educational system of the country. The intelligent School is of the intelligent Education, the intelligent teaching is given special attention to thinking, creativity and abilities of students. Some countries have been achieved to establish the electronic schools, what is named as an intelligent school in Iran for some time. The initial pattern of schools has been in England and Malaysia, which is considered one of the leaders of these schools. Due to the very significant experiences and results, which obtained in the country, the intelligent schools are considerate by all of the school that has been developed. Smart School is an educational institution in order to learning processes and to improve systematic management system, so acts to prepare for children to the information age. The students in intelligent school are responsible for the learning process and teaching. In this school, students are not limited in terms of curriculum, and is authorized to move beyond their curricula. Despite the explosion of knowledge and the development of information and technology, a number of people are not literate in most countries. One of the most significant applications of information technology, training to workers, and Continuous improvement of workers'

has had good results by using information technology [4].

The Smart School is an environment of cooperation and competition; so, teaching and practicing materials are designed to develop of student's skills. The most appropriate model for the development of information technology in education May be called a model for the Smart School Project [3].

Objectives of the of smart schools:

The main goal of a smart school is increased the participation of relevant elements of the school system, especially parents, teachers and students and to provide the greater balance between them. On the other hand students in this school are being met with Electronic Technology and increase their individual capabilities in this way. One of the objectives of this system is multilateral development; because, to determine all of proficiency and feedback of students on the progress of their students, can recognize as well as their own strengths and weaknesses and attempt to solve them by getting the help of system. Create variation and out of uniform and traditional methods of teaching, which are such as the goals, if implement in the form of precise plan, can increase your work efficiency in school. In this system, students learn the importance of time and learn as well as how to achieve the demands and needs by using of communications technology. Goals and objectives, are the expected of long periods of time. Objectives of the intelligent School are explained in a way that is consistent with organizational goals and pave the way to achieving these objectives. Goals of intelligent schools are developed in line with the prospect of smart schools, and to achieve these goals, make it possible to reach more the prospect. Organizational goals have been approved and determined its major orientation. This strategic orientation placed as a basis for ordering with the desired goals of intelligent schools.

- Continuation of the learning process for students, who are outside of the school
- Creating a dynamic and fascinating environment blossom for the full individual and collective talent, and outbreak the creation of students
- Increasing the support and participation of parents and interest groups of students in the learning process
- attending of the school teaching staff with new trends of learning, which based on the needs of the foundation knowledge of community
- Creating a favorable environment for continuous evaluation to appropriate with talented and development of students
- To provide the willingness and participation space for students and teachers in the processes of teaching and learning
- The promotion of experiential learning in research and student-centered learning processes

- Development of cognitive, verbal, social, and the vocational specialized skills of students

- Formulating the strategies of development in intelligent schools

Strategies, directions and solution make goals to achieve. If we consider the goals of destination object, the strategies are objectives to reach their destination. One of the main elements of information technology in strategic plans is strategies. In terms of strategies are formulated to achieve overall strategies of specific goals. Each strategy is an originally strategy that is selected from among several solutions or options. To determine the strategies is used of the different tools and analysis. In planning strategic of information technology is usually used an analysis of the strengths, weaknesses, opportunities and threats. In the analyzes of strengths and weaknesses, opportunities and threats try to identify the strengths and weaknesses of an intelligent school. And identify opportunities and threats in the field of utilizes in information technology, which are explained in such a way strategies, to take advantage of strengths and opportunities, and remedy to overcome weaknesses and to address the threats.

Ten key principles of education in the intelligent school:

1. The management instead of ownership (original availability):

In the new era, having information is not power. But access to information is power. All of our actions should be changed, so that the accumulation process information becomes to have management skills and mastery to obtain and categorizing of information.

2. the studying rather than teaching (principle of education):

The current process of training is unilateral and slow. In Intelligent schools gradually should be become the process of "teaching" to the process of "studying", and students to discovery and inference the contents, by themselves.

3. Kiazen (principle of gradual change):

None of the process is not elimination and absolute, and there is everything in time. Therefore, a necessary condition to achieve desired point, "being in the path" and is sufficient condition to reach a favorable situation "movement".

4-being master of the instruments instead of being subjugation of the instruments (the dominant technique):

Intelligent schools are not the schools 'computer-based' but, are the schools 'knowledge-based'. All facilities and equipments of technological should serve to depth understanding and the knowledge of students. The Learning new technologies, are not the goal, but are instrument. Therefore it is essential to

custodians of intelligent office have mastered of the tools that proportion to the situation.

5- Suitable alternatives instead of absolute dependence (the negation of belongs):

Advanced tools, are not free of shortcomings and weaknesses and any commonplace problem can be limit or block in access to it at any time. Therefore should not to be captivated and enchanted the computer and should prepare themselves to any issue or problem. We should think to the appropriate alternatives and immediate things.

6. The modern idea instead of complex tool (the central idea):

The Instruments, which is to extend and deepen is not limited to the understanding of advanced technologies and we may reach to this goal any simple device. The idea to plan and carry out work is important.

7- Trainers Instead of a teacher (principle of education):

Training should be removed from one-dimensional and position of the individual teacher change to the director of the student's advisor and partner. The class room is not restricted with Desk and Chair the classroom will be in every place and at any other opportunity in the school.

8- Motivation instead of coercion (the principle of search):

If students are not done to try and move away from them, practically, would not happened the process of "education". Students must be in search of knowledge. Therefore, motivate the learning of Students is of high priority.

9- Pragmatism instead of theorizing (the principle of ability axis):

The criterion of evaluated for students must be based on ability, in addition to knowledge in intelligent schools. That Means "know more" is not the criterion of "be better"; but, the principle is "to apply better" and having of the quorum sufficient knowledge.

10- Justice Instead of equality (principle of proportionality):

Due to difference in levels of students is very important to determine practice, homework and appropriate assessment. In compliance with the quorum is simply an important the growth of speed and acceleration.

The impact of intelligent schools on student learning:

Popular training of schools in country is a traditional education or in other words, the training is just listening. The maximum action of image is on matters of education that install some colorful posters

on the classroom blackboard. In the visual - listening approach try to be provided and be assisted with the instruction of videos, animation, music videos, in this way, more lasting of visual method is nearly 20 years, and the maximum lasting of aural story is 6 months. In addition, visual - listening approach can be transmitted the content of science in more appealing environment and in a shorter time. In ordinary schools, the teacher course plan contains a set of instructions, lesson plans, and additional practice of questions, exams and classes. However, the addition to use this material in multimedia schools, teacher uses of multimedia training materials, that including videos, photos, audio, slides and, etc...to improve the quality and sustainability of education. This is the first step in the way of moving toward the intelligent schools. There are two different approaches, about the impact of information and communication technology on education system (and in particular schools). Some believes that the effects of new technologies are progressive to make more efficient of transiting the traditional curriculum, and In fact access to information is faster. Another approach is believed, by entering the school information and communication technology; fundamentally, change the goals and tools of education. From this perspective, information technology, overcomes the structured boundaries of traditional education system [6]. Subjects of the above are achievements use of information technology, However, it is simplistic to imagine, that by entering the information technology (in its various manifestations: the Internet, computer, multimedia, etc) caused alone a revolution in education. If the culture of learning – teaching not accept to change in the educational system, the information of technologies would not only change, but also will result to strengthen the conservative traditions of education. Therefore changing in traditional school to a smart school requires to a change of education system in the country, and never launched a smart schools will not possible; unless, to be changed the structure of the education system. This requires planning to be at least twenty years. The changing should be step by step and with the wisdom and thought. The 21st century goes to the direction that most jobs will require computer skills and knowledge. Entering into field requires to a new kind of education that is inconsistent with the traditional teaching. The Smart School is a school for teaching-learning environment and improving the school management systems and is designed to train the researcher students. Smart School is an educational institution that supports the learning process and improves the management system, which has been renovated to prepare children for the Information Age. Instructor and the students are responsible for learning and teaching in smart School. In this school curriculum is not restrictive and allows students to move beyond their lesson plans. Teaching method is

based on the student-centered in this school. Emphasis on thinking skills and provide teaching-learning environment is strategies and policies of the intelligent school [2].

Conclusions:

Making intelligent school is well suited for educational aspirations, provided that studies to be accurate about the project by experts before it. Smart School is as one of the most important components of the Islamic Republic of Iran, and is a dynamic, learner of the education organization, in order to manage and improve the learning process, that rebuilt systematically, to prepare the students in different levels for life in the age of information and communication. . An Intelligent school is as a learning organization that has evolved through time, and develops continually, its professional staff, educational resources and its operational capability.

Resources

1. Anders, Abram, 2012. "Experimenting with MOOCs: Network-based Communities of Practice.". *Great Plains Alliance for Computers and Writing Conference*. Mankato, MN. Retrieved February 11, 2013.
2. Deacon, Andrew, Catherine Wynsulley, 2009. "Educators and the Cape Town Open Learning Declaration: Rhetorically reducing distance". *International Journal of Education and Development using ICT*, 5(5): Retrieved 2010-12-27.
3. Downes, Stephen, 2011. *Free Learning: Essays on Open Educational Resources and Copyright*. National Research Council Canada.
4. Guttenplan, D.D., 2010. "For Exposure, Universities Put Courses on the Web". *New York Times* (New York). Retrieved, 2010-12-19.
5. Kauppinen, Ilkka, 2013. "Different meanings of 'knowledge as commodity' in the context of higher education". *Critical Sociology*.
6. Mulder, Jorrit, 2008. *Knowledge Dissemination in Sub-Saharan Africa: What Role for Open Educational Resources (OER)?*. Amsterdam: University of Amsterdam, pp: 14.
7. Swain, Harriet, 2009. "Any student, any subject, anywhere". *The Guardian* (London). Retrieved 2010-12-19.