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The Role of Virtual Education in Creative Learning Student of University

[1]Mahmood Ghorbani and [2]Samira Delavar

[1]Department of Management, Bojnourd Branch, Islamic Azad University, Bojnourd, Iran
[2]Department of Educational Management, Bojnourd Branch, Islamic Azad University, Bojnourd, Iran

Abstract: This research has performed in order to study the conception of scientific crops members for the role of virtual education in creative learning in the universities city of bojnourd in 2011-2012. The method of research is survey descriptive for information gathering and it is applicable for target. The number of universe for bojnourd city universities has been 240 people (n= 240). The number of sample according to Morgan table is estimated 149 (n=149) that is selected by chance. The data gathering device is a questioner that made by researcher including 38 questions in a scale likret. The permission of questioner obtained with the study of resources and taking opinions of a few for its final experienced authority professor. Calculating 25 questioner were distributed between statistical group (not main sample) and was estimated by koronbakh Alfa %94 collected data that is gathered by descriptive statistic method such as abundance mean standard deviation and inferential statistics. One sample T test two independent sample T-test F-test Friedman test one-way a nova difference are analyzed by SPSS statistical soft were and the result of questions anslysing for this research displayed that combine (on line and preventive) Component of most computer-based learning is the role of creative learning. Other components of the computer-based teaching and web-based training are the next rankings.

Key words: Virtual education · Computer-based learning · Computer-based teaching Web-based training · Creative learning · Faculty member

INTRODUCTION

Virtual education is active and intelligent learning that the transformation of teaching and learning process and knowledge management, the role will be pivotal in expansion, deepen and sustain the ict culture.

Virtual education using advances industry in ict is one of new strategies for educational justice development in the contemporary world. According to experts and information and communication technology virtual training based on electronics environment is conventional methods of teaching in the world to 2020. Experts says ICT to support learning can create the context in which the information can manipulated or changed. In this new type of learning new solutions for issues to be find.

ICT-based education, which enabled the students to think actively and innovative and ideas to share together [1] Today almost a sense of virtual education using advancedcomputer materials and computer materials to learners, learning, students are. As mentioned in the definition of e-learning is now the dominant type of training this way, the subsidy is often these two terms are used interchangeably.

E-learning to a wide range of software applications and ICT-based teaching methods, including Computer, CD, network, Internet, intranet, etc. It can to provide possibility teaching and learning opportunities for every individual in any field at any time and place lifelong [2].

Close cooperation and mutual information and communication technologies with new approaches and theories of learningis one of thechange foundations in the educational system in this new world enviromment. And new approaches toward teaching and learning and virtual education have purposes and common borders their main focus is the role of the learner in the learning[1] [3].

With the emergence and development of global information and communication technology and its impact on all aspects of human life, the world entered a new community called is information society. Rapid changes in economic, social and technological are affected nature

[1]www.virtual\e-learn\knowledgenet-history of E-learning.htm

Corresponding Author: Dr. Mahmood Ghorbani, Department of Management, Bojnourd Branch, Islamic Azad University, Bojnourd, Iran.

of life and occupations of individuals one of the most truly significant change in human life is created, the advent of computers has been the beginning of the 1950s. But the changes reached a peak when the computer networks had grown between them and coming the Internet in the late 1980s. The virtual world's number to eliminate the actual physical distance and communication barriers exist [4]. Thus each individual used to cope with these changes must be continually learning and retraining specialty in the present era has caused can be added continuous request training and opportunities for learning[2] [5]. The success of any community, depend on scholars can engage in a lifelong learning process. education system as a major element in the process leading towards the information society and for human capital formation, is a most important role. Internet-based training technology with fundamental changes in traditional concepts of education has been able to resolve many of the traditional educational system problems and to create fundamental changes in education. In now the concept of virtual education to replace traditional education is one of the most promising and rapidly growing information and communication technology. The most advanced achievements until a few years ago people had a certain time and place for teaching and learning together but nowadays with the advancement of computer and Internet technologies to some extent these requirements is missing and soon everyone will be able to learn anything at any time and place [6]. In this major new system of education which will be called e-learning [7]. Technology can work in situations of troubleshooting strategies to support learning and creative thinking. Technology can provide issues, bottlenecks and problems that have emanated from the activities, providing better tools for learning [8]. Computer-based learning and teaching technologies, Web-based training, virtual universities, Virtual classes on the networks that developed in the world have paved the way for the emergence of new methods of training Thus todays the growth of this technology with other learning methods as a teacher, students are not considered but with using of virtual education ways we want to achive creative learning.

Learning in the form of virtual education is onlineand offline. In the first type person, in her own Independent of location and time can be training in the educational content. In online virtual classroom lessons into a multimedia training center are placed on the site and it's going to be able to receive course content but in the offline type in the course content is provided as a multimedia educational CD and is given to the person using it does. Educator is present in the specified time for delivery learning tips and answers to questions in the environmental, such as video conferencing, Read phonetically, Rate translation [9].

Thus, virtual education can create the structure through the quality of education, students and teachers can promote using this technology to achieve wide learning resources and increase their motivation in creative learning. Creative learning is the ability to learn more subjects in less time, to permanent remember and complete and easy to remember content with creativity.

In this basis reading speed should have in less time of contract and also we should be aware from in terms of study and study systems and how to organize content and make it memory through to activate brain's to understand the content completely and creativity to create easy to remember complete.

Creative learning, to create motivation for effort and activity in learner to think creative solutions for future issues can not be expected [10]. To enter new information and communication technologies such as computers and information networks, Internet and Intranet and university education, it is the opportunity for some reforms and educational innovations that increase efficiency and effectiveness of the educational system.

Learners in the Internet environment can become a member according to their interests, in learning special groups. This certain group's activities it is design, or cognitive activities, such as mathematical thinking, active people in the chat room to work. In these places, produced kind of computer games and computer software programs, which is to provide a wide interaction?.

Evaluation in this environment, it is completely different, conditions is provided for creative and active experiences, provide information that is useful for the learning process, training and testing are two of the same coin. All learners have the opportunity to succeed. It is possible to create targeted programs to pay assessments based on the same program. Available variety of sources for assess learner progress that provides clearer pictures from learner progress, there is an opportunity for change and reform. learner is examined within the learning environment. To learned activities such as design and problem-solving and do other tasks in the development of active learning.

[2]http:// www.usb.ac.ir/fa/research/ it/lectures/e-learn

According to classification of educational goals has done by Benjamin Bloom and his colleagues. Knowledge is one of the pillars of learning, but knowledge is not sufficient for creative and effective learning. Interest towards education, the educational methods is pillars of learning too. The person is not motivated to learn something from within than to try and rush things, it does not and will not change his behavior, the "acting" and practical experience is another condition of learning so we can say that learning has three pillars, recognition, tendency and action. The purpose of learning and consequently has three pillars, to achieve effective learning that cause changes in behavior, learner purpose also should have the dimensions of cognitive, emotional and psychological is physical. Therefore, separation purpose to three domains, ads and attention care planners, professors and teachers in curriculum and educational instructional design adds and it's desirable [11].

Computer-based learning of any type and form essentially is learning through doing.

Based on all educational resources Listen Read phonetically All the computer-based, providing opportunities for learners to make decisions and choices for learners and its providing information and necessary data for explanation and interpretation of this information. In addition, most computer-based learning resources are used in relatively calm person and give feedback to their students.

In the computer-based teaching, computers are replacing teachers to separate him from his regular duties to and this allows to students have access to educational materials always. And this is effective for those who use the software. Web-based training is another method of e-learning in terms of educational content via the Internet and the Web browser will be transferred to the learners [12].

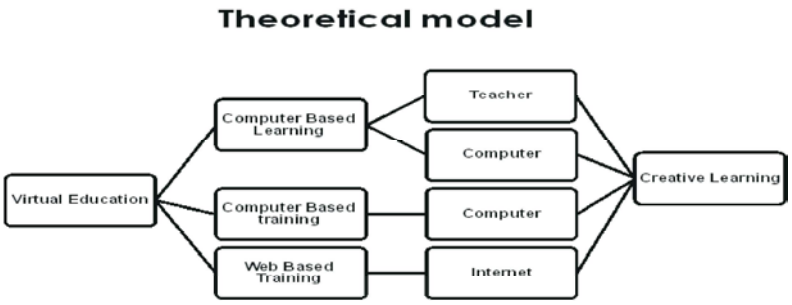
So with regard to learning styles in a comprehensive, Coaches should be having a tendency to creative work through learner's interests. Whatever the severity and extent of interest in learning more, they show more creativity and also provided basis of creative learning. Creative teaching skills to allow teachers and learners to accept the changes it to be consistent. Internet capabilities to be possible provide training and learning in virtual environments [13]. Mehdi Rabiee [14] to study the effectiveness of virtual learning course of professors' and students' viewpoint of Ferdowsi University of Mashhad. the society studied in this research is the all professors and students of virtual learning course of Ferdowsi university of Mashhad. results indicate that from professors' viewpoint, in the held virtual course: content was desirable; teaching-learning activities, in the middle; designing of pages, in the middle; organization of educational material, desirable; presented feedback, in the middle; flexibility desirable; labor volume, desirable; aiding to students, desirable; ability to motivate students, in the middle; and appraisal methods was desirable. Generally, from professors' viewpoint, effectiveness of virtual learning course is desirable.

The research was conducted by Mohsen Zarei nujiny [15] to identify the characteristics of electronic curriculum in higher education, from curriculum specialist's view and information technology.

The findings show that all the components of curriculum specialists, learning activities, teaching Strategies, grouping, time, location and evaluation, is considered more important than Personal training.

Also between Curriculum specialists and Information Technology, about components of the objectives, content, learning activities, teaching strategies, grouping and evaluation materials and resources. There is a difference, but there is no difference in time and space components. The barrier, lack of long-term plan, is the most important obstacle to the development of e-learning in universities.

Mitra Zolfaghari *et al*. [16] in research to study faculty members' attitudes to teaching Nursing and midwifery, Tehran University of Medical Sciences, of the approach did given the positive attitude of faculty members to teach the system approach the terms of the design and implementation of the approach in formal education is the School of Nursing and Midwifery, In a research by Brown made the comparison between learning in regular classes and distance learning [17], was found E-learning makes learning easier And more opportunities for students to participate in the discussion. In discussing the problems of e-learning, students who reported ill-acquainted with other class members were And direct contact with the trainers were lost. In this study, the researcher Lattices suggestion five factors for success in distance education models. Teacher perseverance, organization (for example, to prepare advanced learning topics) Strong commitment, engagement with learners, awareness of the used technology used and the staff large support. Kuhang [18] was examined 154 comments on the virtual students to use the virtual library. Results showed that students had a positive attitude to the use of



virtual libraries and students who have had more experience in using the Internet had more positive attitudes Liu and Yang [19] research about factors affecting students' use of virtual training courses and information resources and found that the Internet as the main source of information students the main reason is easy and quick retrieval of information the respondents had mentioned. Hines [20] conducted research about faculty member at the University of Montana in (2004) and concludes that the best way to teach students about library resources, has offered courses on library skills. The whole attention to virtual education day to day is more and most studies show virtual education is better than other forms educations.

MATERIALS AND METHODS

The purpose of this research study is the role of virtual education in the creative learning students in the universities city of Bojnourd in the 2011-2012 school years the study is cross-sectional.

The study population consisted of all teachers in the faculty member in the universities city of Bojnourd in the 2011-2012 academic year, which are engaged in teaching and their total number is 240 the sample size of the estimated sample size was used Morgan Jersey [21]. According to the information in the table should be selected population of approximately 148 samples The purpose of this study, questionnaires were distributed at the university after they collected the sample in this study sample was 149.

In this study, data collection, questionnaire based on the assumption that researcher is done and according to research hypotheses and the way Likert scale. Variables to measure a four-part items given to individuals and asked the amount of work done on the basis of these items are:

Very high	High	Low	Very low
4	3	2	1

Table 1: Reliability of the questionnaire

The reliability	Cronbach's alpha coefficient	Index
Desirable	78.377	Computer-based learning
Desirable	71.74	Computer-based teaching
Desirable	90.26	Web-based training

And an option for those who are not entitled to answer "no comment" was predictable. Then individual scores for each question and the questions were based on the above criteria, in order to measure the variables was used of the scale. In order to obtain valid test instrument using Cronbach's coefficient is and the total average of three areas in which the credit was approved.

In order to test hypotheses of descriptive statistics such as frequency, frequency and statistical tables were drawn to it.

Inferential statistics in a sample T-test, two independent samples T-test, F test, Friedman test One-way or one-way ANOVA and SPSS software is used.

RESULTS

The findings from this study the both of descriptive and analytical findings of these research hypotheses are presented.

The First Hypothesis: Computer-based learning to creative learning students in the universities city of Bojnourd.

According to data from Table 2 that a sample T-test and significance level of 0.05 is used it can be concluded that computer-based learning to creative learning students involved. The mean observed (196.3) has significant difference with the average (5.2) is.

The Second Hypothesis: Computer-based Teaching on creative learning students in the universities city of Bojnourd.

Table 2: Table for a sample T-test to investigate the role of computer-based learning to creative learning students in the universities city of Bojnourd

	Total	Average	Standard deviation	Least one sample T-test significance level Compared with 3
Computer-based learning to creative learning students in the universities city of Bojnourd involved	149	3.2566	.41718	P<0.001

Table 3: Table for one sample T-test to investigate the role of computer-based teaching on creative learning students the city of Bojnourd

	Total	Average	Standard deviation	Least one sample T-test significance level Compared with 3
Computer-based teaching on creative learning students in the universities city of Bojnourd involved	149	3.1963	.42625	P<0.001

Table 3: Table for a sample T-test to investigate the role of Web-based training on creative learning students in the universities city of Bojnourd

	Total	Average	Standard deviation	Least one sample T-test significance level Compared with 3
Web-based training on creative learning students in the universities city of Bojnourd involved	149	3.0935	.37693	.003

Table 4: Friedman test data table for components rating virtual education on creative learning students in the universities city of Bojnourd.

Virtual education components	Total	Average	Standard deviation	Reputation	Friedman rank test
The role of computer-based learning on creative learning students in the universities city of Bojnourd	149	3.2566	.41718	1	25.811
the role of computer-based Teaching on creative learning students in the universities city of Bojnourd	149	3.1963	.42625	2	Lowest level of significance
the role of web-based training on creative learning students in the universities city of Bojnourd	149	3.0935	.37693	3	P<0.001

Table 5: Frequency distribution profile faculty member of the Universities city of in Bojnourd in 2011

Percent	Total	Group	Profile
25.5%	38	Women	Gender
74.5%	111	Man	
100%	149	Sum	
68.2%	101	MA	Education
31.8%	47	PhD	
100%	148	Sum	
1.3%	2	Less than 25 years	Age
24.8%	37	30-26 year	
30.9%	46	35-31 year	
21.5%	32	40-36 year	
13.4%	20	45-41 year	
4.0%	6	50-46 year	
4.0%	6	More than 50 years	
100%	149	Sum	
15.4%	23	Less than 5 year	Teaching experience
23.5%	35	10-6 year	
33.6%	50	15-11 year	
22.1%	33	20-16 year	
3.4%	5	25-21 year	
0%	0	30-26year	
2.0%	3	More than 30 years	
100%	149	Sum	

Table 7: Distribution faculty members Universities cityof Bojnourd on familiar with computer skills in 2011.

No comments		Very low		Low		High		Very high		
Percent	Total	Percent	Total	Percent	Total	Percent	Total	Percent	Total	Proficiency in computer skills
.7	1	1.3	2	12.8	19	47.7	71	37.6	56	Program Word
5.4	8	6.7	10	38.9	58	29.5	44	19.5	29	Program Excel
1.3	2	8.1	12	20.8	31	38.9	58	30.9	46	PowerPoint program
2.0	3	4.7	7	17.4	26	45.6	68	30.2	45	Windows operating systems
2.0	3	2.7	4	16.1	24	53.0	79	26.2	39	Internet
5.4	8	16.1	24	30.2	45	29.5	44	18.8	28	Messenger (chat)
61.1	91	14.1	21	17.4	26	2.0	3	4.7	7	LMS program LCMS

According to Table 2 data is used from a sample T-test and a significance level of 0.05, it can be concluded that computer-based learning to creative learning students are involved. In other words, the mean observed (3.256) has significant difference with the average (2.5) is.

The Third Hypothesis: Web-based training on creative learning students in the universities city of Bojnourd.

According to Table 2 data from a sample T-test and a significance level of 0.05 is used t can be concluded that Web-based training on creative learning students is involved?. The mean observed (3.0935) significant difference with the average (2.5).

Fourth Hypothesis: Which components of virtual education have more roles in creative learning students in the universities city of Bojnourd?.

According to the results in Table 5 as regards to the lowest level significantly, Friedman test is less than 0.05 the approval rating is a component of most computer-based learning to creative learning students and other components of the computer-based teaching and Web-based education are up ratings.

Profile of Professors Faculty member Universities cityof Bojnourd is given in Table 6. Statistical analysis in age, gender and teaching experience not showed significant difference the attitude of faculty members to investigate the role of virtual education in the creative learning students.

Also in terms of computer science professors, in Table 7 shows that the total about 85 percent of "very high" and "very" familiar with Word software. Also In total, about 50 percent "very high" and "very" familiar with the Excel program. The survey shows that most familiar with the PowerPoint program to select "high" and a cumulative 70 percent "very high" and "very" familiar with this program. However in total, 75.8 percent of "very high" and "high" are familiar with Windows operating systems. From table 7 of more the sample group which claimed to know "a lot" with Internet and in total about 80 percent of"very high" and "very" familiar with the Internet. However, in the case of massanger program (chat) Only about 48 percent "very high" and "very" familiar. Also more faculty member sample group has not more familiar with the LMS, LCMS programs and only about 7 percent of their familiarity "very high" and "high" with these programs.

CONCLUSION

This study investigated the role of virtual education in creative learning in the universities city of Bojnourd city that terms of gender, age, degree and teaching experience and university professors who teach in the results of this study include:

A: Computer-based learning to creative learning students in the universities city of Bojnourd involved.

B: Computer-based teaching on creative learning students in the universities city of Bojnourd involved.

C: Web-based training on creative learning students in the universities city of Bojnourd involved.

D: Computer-based learning has the greatest role of creative learning students.

And other components of the computer-based teaching and web-based education are in the next rankings.

Statistical analysis was performed, showed using T-test 95% confidence level teaching and learning based on computer and Web-based education on creative learning students.

The analysis performed by the Friedman rank test showed that 95% confidence level Most computer-based learning component have the more role on creative learning students and other components of the computer-

based teaching and web-based education are in next rank. The total (98.01) faculty member agreed that in computer-based learning, teachers also play a key role in creative learning students.

About the first and second hypothesis in this research can be said that there is not some of these titles but the results of the study, Dr. M. Shariatmadari *et al*. [22], shows The combination of education (online and in person), Web, video conferencing and mobile training through educational television And audio and video tapes have more role in the teaching-learning process in students also the results indicate that faculty members have a positive attitude towards using methods of e-learning.

Similarly, Mehdi Rabbi [14] generally, from professors' viewpoint, effectiveness of virtual learning course is desirable. Statements Hines [20] is also in line, with the general attention to virtual education day to day more and most studies show virtual education is better than other forms of education. Seyed Naghavi Research [23], Mitra Zolfaghari *et al*. [16] indicate that these teachers have a positive attitude to e-learning as a teaching aid.

Mehran Farajollah findings and others[3] [24], Brown [17] Indicate that e-learning will facilitate learning and more opportunities for students to participate in the discussion.

Also Mohsen Zarei Nujini [15], shows curriculum specialists all components of the, learning activities, teaching strategies, grouping, time, place And evaluation, is considered more important than in person education. Also Shahsavari *et al*. [25] concluded that the use of virtual systems to be active learners learning capability in the circuit and the type of interactive learning in medical education recommend.

In S. Ebadi, Sirus Abedi, Mehdi Ebadi [26] article shown: Impact of IT on traditional learning methods for converting it into a student-centered learning methods, Students and faculty satisfaction, student-centered learning based on the use of information technology is much more than traditional methods [27].

Dr. Ramezan Jahaniyan [28] is also the world in the role of ICT in learning, this article explains the Information and communication technology that creates the structure through improved quality education, Students and teachers can use technology to achieve a wide range of learning resources, Increase their motivation for learning and different forms of learning are used.

The third hypothesis, the researchers said that about these titles there is not but research Shariatmadari M. *et al*. [22], Koohang [18], Ab peyma [29] indicate that this Students who have had more experience in using the Internet had more positive attitudes. Also, Liu and Yang [19] effective use of virtual education, students have the information sources and found that the Internet as the main source of information students the main reason is easy and quick retrieval of information the respondents had mentioned.

Significantly better scores in the subjects of information management, ommunication and expression were taking advantage of the benefits of teamwork in an online rvey, creating opportunities for real social problem of finding, Problem-solving research and attention to individual differences to are features a Web-based education is achieved [30].

Although studies have shown that life expectancy in the world of information technology on the Internet And other samples, it is not very long, but many countries realized the importance of this issue And in this way have a good investment And in reforming its educational system are based on the feedback obtained from the use of information technology [31]. However, with advances in scientific methods of learning has its day the trend today is much faster and this requires that educational institutions, teachers' methods and to constantly update their curriculum and teaching to the students in this era of rapid changes associated with their formation. Thus, with 99 percent confidence among independent variables using the Internet as a research source, familiar with the location of Internet resources for teaching And researchers' attitudes towards distance education via the Internet, there is a significant positive relationship.

Research Limitations: Some teachers believe that lack of interest in research and research and it is important not to make the process of collecting the questionnaires.

There are few studies in Iran with regards to the role of virtual education in the creative learning and lack of access to sources of research (thesis related).

Failure to cooperate with some universities to distribute questionnaires.

Recommendations Based on Findings: According to the results of the research hypothesis that creative learning students involved in virtual education, It is recommended to all authorities in order to promote better education, virtual education Badadn with the appropriate training

[3]http://www.civilica.com/Paper-ICELEARNING04- ICELEARNING04_007.htm

necessary to create and update all the professors who work in this area Creating the infrastructure necessary for Internet transmission of digital data and multimedia products, audio and video Educational progress in this field to create.

The First Hypothesis Proposed Minor: According to the results of the first sub-study hypothesis that computer-based learning to creative learning students involved Results and conclusion The computer-based learning, creative learning students in the teacher's role is Therefore, it is suggested to the authorities Through educational programs Professors in the field of learning skills and overcome their weaknesses To be motivated to work in online environments have The course of this administrative And consider incentives for teachers to be involved. Changing patterns and ways to create and and reforms to create space for teachers to these areas to be developed.

The Second Hypothesis Proposed Minor: According to the results of the second sub-hypothesis research Teaching computer-based learning in which students' creative role Therefore, following the teaching of computer and software, is suggested by To the equal enjoyment of facilities to be provided for students And the subsequent improvement of infrastructure And improve the quality of educational software Students with easy access to sites and software, is the education system.

The Third Hypothesis Proposed Minor: Since the results based on the findings Web-based training on creative learning students involved And 95% 95% confidence level of the population is confirmed Thus, universities and educational centers in the high-speed Internet recommended Tjhyzdanshgah to the computer facilities for faculty and students to purchase computers And a positive attitude to the use of computers in all segments of society, especially among teachers, students and their parents Using the online learning environment for students and teachers to connect to the Internet for education to be better prepared.

REFERENCES

1. Jalali, A. and M, Abasi, 2004. Information and communication technology in education in other countries ". Conference Proceedings ICT curriculum in the Tehran. Strategies to Promote the Humanities in the Country, pp: 22.
2. Pryst, G., 2009. E-Learning Knowledge net, history of e-learning. Internet. Wiley Publishing.
3. Grisson, V. and B. Anderson, 2007. E-learning in the 21st century: Institute of Educational Technology Smart Schools.
4. Javidannejad, H. and S. Soheili, 2003. E-learning, organizations need in 21st Century Proceedings of First International Conference on Information and Knowledge Technology, Amir Kabir University of Technology.
5. Groff, J. and C. Mouza, 2008. A Frame work for Addressing Challenges to Classroom Technologyuse, AACE Journal, 16(1): 21-46.
6. Smith, A. and D.W.T. Rupp, 2004. Managaerial implications of computer-based online/face to face business education: a case study online. Information Review.
7. Horton, W. and K. Horton, 2006. E-learning tools and technologies.. Wiley Publishing, pp: 230-232.
8. Zofen, S.H., 2009. Educational Technology: Ministry of Culture and Islamic Guidance in Tehran, pp: 61.
9. Raj, S., 2004. Distance education. Dehli: Publishing Hense Dehli.
10. Husseini, A., 2009. Creative Learning, creative class, Practical ways of fostering creativity Tehran: School.
11. Maleki, H., 2000. Curriculum (action). Tehran: School Publishing, Printing.
12. Clarke, A., 2008. E-learning skills. britian: Printed Greatest Britian by Cpi., pp: 98.
13. Farhadi, F., 2005. Overview of a Web-based distance education system. Island: Electronic and Internet World Conference, pp: 12.
14. Rabiee, M., 2008. Review, the effectiveness of virtual training course from the perspective of teachers and students of Ferdowsi University of Mashhad. Ferdowsi University of Mashhad Journal, pp: 120.
15. Zareei nojini, M., 2010. Identifying the characteristics of electronic curriculum in higher education, from curriculum specialists and information technology, information technology specialists in Iranian universitie: Faculty of Education and Psychol., pp: 147.
16. Zolfaghari, M., M. Sarmadi, R. Negarandeh ands B.F. Zandi Ahmadi, 2009. Attitude research under the faculty of Nursing and Midwifery Tehran University of Medical Sciences School of Nursing and Midwifery. Tehran University of Medical Sciences (LIFE) Journal, 15(1): 39-31.
17. Brown B.L., 2000. Web - Based - Training. washington Dc: office of educational research and improvements. Report No. EDO- CE - 00, pp: 248.

18. Koohang, A., 2004. Students` Perceptions toward the Use of the Digital Library in Weekly Web-based Distance Learning Assignments Portion of a Hybrid Programme; British Journal of Educational Technology, 35(5): 617-626.
9. Liu, Z. and Y. Zheng, 2004. Factors Influencing Distance-education Graduate Students` Use of Information Sources: A User Study; The Journal of Academic Librariaship, 30(1): 24-35.
20. Hines, S., 2006. What Do Distance Education Faculty Want from the Library? Presented in Twelfth off-campus Library Services Conference (Georgia), [Online].
21. Khalatbari, J., 2006. Methods for investigating: 15 Processors.
22. Shriatmadari, M., P. Banisi and S. Molaiyan, 2009-2010. faculty of members' attitudes towards using methods of teaching E-learning in the process of teaching students Garmsar University, University Research Project Garmsar. Quarterly Approach, pp: 28: 61.
23. Seyed Naghavi, M.A., 2007. The attitude of teachers and students to e-learning research, a survey of e-learning in universities in Iran. Humanities Collections. Research and Planning in Higher Education. Journal of Management Studies, 43(3): 157-176.
24. Farajolahi, M. and M. Moeinikia, 2010. Examined student satisfaction messages of support for service learning, Payam Noor University. Fourth National Conference and first International Conference on e-Learning, pp: 8.
25. Shahsavari Esfahani, S., L. Mosalanejad and S. Sobhaniyan, 2010. The research compared the effects of virtual and traditional education methods based on the skills and abilities of students school of Nursing Jahrom, Hormozgan Medical Journal, 14(3): 184-190.
26. Ebadi, A., S. Abdi and M. Ebadi, 2010. The impact of information technology to transform traditional methods of learning to student-centered learning methods. Islamic Azad University, Karaj - educational and cultural center Sama, 20(3): 22.
27. Angelo, T.A., 1993. Classroom Assessment Technique Handbook For College Teacher.. Sanfranscisco: Jossey-Bass, pp: 85-87.
28. Jahaniyan, R., 2009. The role of ICT in learning: National Conference on the role of ICT in Education Development, Islamic Azad University karaj, Karaj Educational and Cultural Center Sama.
29. Abpeyma, M.H., 2002. Attitudes of faculty members and graduate students field of agricultural extension and education to distance education Internet: Web Design [masters thesis]. [Tarbiat Modarres University]: Faculty of Agriculture, pp: 118-122.
30. Zarabiyan, F., 2010. Web-based learning with an emphasis on effective e-Learning. National Conference on the role of ICT in Education Development. Islamic Azad University, Karaj - educational and cultural center Sama, pp: 22-26.
31. Loveless, A., 2006. Developing conceptual frameworks for creativity, ICT and teacher education. Thinking Skills and Creativity, 1(1): 1-3.