

# Investigating the Role of Digital Library in Distance Education Process from Students View: In the Kermanshah Province Distance Education Centers

Solmaz Abolghasemi<sup>1\*</sup>, Mohammad Kazem Hamzhepour<sup>2</sup>, Mahmood Moradi<sup>3</sup>

<sup>1</sup>MSC of Library and Information Science, Islamic Azad University, Hamadan Branch, Hamadan, Iran

<sup>2</sup>Ph.D in Library and Information Science, Lecturer in Hamadan Azad University, Hamadan, Iran

<sup>3</sup>Faculty Member in the Department of Knowledge and Information Science Razi University, Kermanshah, Iran

*\*Corresponding Author:* Solmaz Abolghasemi

**ABSTRACT:** With total aim, this research is investigating the Role of Digital Library in Distance Education Process from Students View: In the Kermanshah Province Distance Education Centers. And if has research with the descriptive-measurable method of research that has statistical community include of the research is 5563 persons (3200 girls & 2363 boys) and witch use of a group sampling about 360 persons (205 girls &155 boys) it has been choose a sample .The required tools of collection information consist .Of two answer sheets, as follows: the general answer sheet is inclusive of demography aspects such as(Gender, type of capitulation, the grade of education, the parental education, parental business, the type of house and the amount of family monthly income basis) and the specialized answer sheet is inclusive of 20 questions by likert scale that were divided in to four type of option, Absolutely agree- agree- disagree- absolutely disagree, and this want to examine the quality of learning(access to the high volume of information, reduction of some educational, costs and improving scientifically level of students) under this research. And strength of answer sheet has been achieved by Cronbach Alpha formula the answer sheet was distributed among the student of virtual educational centers and then after collected .The achieved data by the use of square union of Pierson, ANOVA examination & square union of ETA. T for independent samples, simplify single t has been analyzed & the result of examination shows that between the economical sociality confuse, educational Grade & type of students education confers. And the view the use of digital libraries has a mean full relationship with the help of SPSS 19 software, the 95% insurance and with the use of digital library there is no mean full relationship between gender & view. Such a view by us of digital library among the students from distance education center is higher than normal level.

**Key words:** Distance Education, Semi face-to-face and non-face-to-face education, Digital Libraries, Students

## INTRODUCTION

Penetration the new information technologies into educational center (From schools to universities) and even homes, generally has changed the simple relationship of the teach or ship and student ship, thus traditional learning patterns has changed and users face with wide volume of information and knowledge. What is certain, distance education centers and use of digital library's will be the good place for appearance and emergence of talents, creativities and innovations.

In contrast, in education, lake of specialist and experienced teachers and faculties especially in basis sciences lessons, land spreading and the existence of immigrant and nomads population as well the existence of weak educational corer in high school and guidance school levels, are the factors of resort to using of distance education system.

Today, information technology has so effected different dimensions of human life that almost can not will be known need less of any part of the people's daily life affairs from this developing technology . In this subject, also topic of training and education isn't exclude from this rule and also it has involved main changes in the using of informational and communicational technologies of this realm and has created the great step in education subject (Afzalniya 2005), This changes that created that created in result of using modern technology

such as internet, compact disk, informational centers and multimedia systems ,caused emergence of new viewpoints in educational subjects and has created the type of wide learning without limiting in place and time frame work that for example can point to distance education system (seeeyadat, 2006).

Starting the scientific work of distance education institution from Sep, 2004 has been the great step toward achievement of high goals of pedagogy. Starting the activity of distance education institution and using the audio and visual educational ways and valence of communications and information's technology and media facilities by providing the wide and good chance for achievement and creation of equal chance for education, education cover, informational literacy and make public the education subject, is great step toward educational and scientific development of country and truly it enable present education with high quality and into cheap way for everyone and in every time and every place (Alhosseini 2005). The goal of current study is investigation the role of using digital library in distance education process in distance education centers of province of Kermanshah. In other words researcher intends to answer this question that "Is the effect of using digital library between students of distance education centers more than medium level?

Number of thesis centers in province of Kermanshah level is 22 centers that number of 3200 girl students and 2363 boy students are educating in these centers. To study this role has used of objects such as economical/ social base , educational level, kind of educational centers, difference in gender and maximizing the effect of using digital library between students of distance education and data have measured under research hypothesizes and through the questionnaire that made by researcher. The reason of select students and study the viewpoints of them in this research are that they are the most important educational pillar of centers and awareness of their viewpoints can be efficient in goals development and educational process.

### **Basic questions**

Question 1- Is the relationship between economical / social base of students of distance education centers and their perspective into using digital library?

Question 2- Is the relationship between educational basis of students of distance education centers and their perspective into using digital library?

Question 3- Is the relationship between educational center of students of distance education centers and their perspective into using digital library?

Question 4- Is the relationship between using of digital library and it's difference between boy and girl students of distance education centers?

Question 5- Is the effect of using digital library between students of distance education centers more than medium level?

### **Research goals**

1- Determine the relationship between economical/social base of students of distance education centers and their perspective in to using digital library.

2- Determine the relationship between educational basis of students of distance education centers and their perspective in to using digital library.

3- Determine the relationship between educational center of students of distance education centers and their perspective in to using digital library.

4- Determine the relationship between using of digital library and it's difference between boy and girl students of distance education centers.

5- Determine the relationship between using of digital library between Students of distance education centers and it's more than medium level effect between student of distance education centers.

### **Limitations**

1-Expanding the centers as well as long distances have made that researcher have problem and spent time and high cost in distribution and collection of research data.

2-lack of collaboration in many of governmental and university and educational centers libraries made that researcher have problem in collection of history and just content to presented history.

3-lack of tend of some students in fill the questionnaires because of lack of their belief and interest into research subject.

4-Exist of bureaucracy and involving of researcher in complexity of official works in regions education and libraries.

5-loke of necessary accuracy and motivation of some of students for answer to questions and after that giving back the questionnaires to researcher

6-loke of planning and control the unexpected problems in daily works and life.

## MATERIALS AND METHODS

In this research has used of traversal-discretional method. Discretional researches have both applied and basic aspects. In applied dimension use the results of these researches in decision making, policy making and planning.

It also has basic aspect, because it uses the results of these researches for predict and awareness over the behavior of variables and parameters and determine their changes coefficients (Hafez niya, 2002). In formations collection tool are researchers questionnaires that its questions designed in tow parts including public and specialized. part of public questions include sociological features like gender, kind of center, educational basis, level of parents educations , parents job , kind of house and level of monthly income of family and part of specialized question have been include 20 questions that provided in base of likert scale and four spectrums include completely agree, agree, disagree and completely disagree-e and measure four main works including learning quality, achieving into high volume of information's, decreasing some of educational costs and scientific promotion of students under research hypothesizes. In province of Kermanshah is 22 distance education centers that include provinces of (zone 2) paveh, Ravansar, Javanrod, Eslamabad, Harsin, Biston, Songhor, sarpolzahob, Ghasre shirin, sahne and kangavar. Statistical society in this research composed of 5563 students (3200girls and 2363 boys) that are educating in distance education centers of province of Kermanshah in educational years of 2009-2010.

This research pays to determine regarded sample by using method of class sampling. If the members of statistical society don't be the same, and if themselves composed of different classes, from each class must select content of sample proportional with number of persons that are in that class, this method call sampling (safe naraghi 2005). Thus, content of sample is 360 person in research that is equal with 205 girls and 155 boys of distance education schools.

### **Research history**

Since topic of distance education count the new issue in disciplinal circles and doesn't have long history, did the limited researches especially in education. Research about survey the role of using digital library in distance education process has a lot of limitations in presenting research history. jamshidi Tavana(2006) did the research in MA level by name of valuation of educational regulation in development of distance education from viewpoint of managers, teachers and students of distance centers in Tehran city. The aim of this research is recognition of defects of distance educational regulation in high shod level and achieved results showed that distance educational regulation of high school level is good and efficient. Alipour (2007) in MA level has paid to survey effectiveness of distance education activities in education of province of Kermanshah. The main aim this research is survey the achievement quantity of commercial centers of distance education administrator into distance education goals that have been selected by cluster sampling method.

The tool of data collection is questionnaire that after collecting them results showed that distance education administrator centers of province of Kermanshah have been succeed up to high in achievement into distance education goals. Rezaee (2009) in MA level has paid to survey the role of using of digital library in distance education process from viewpoint of specialists. This thesis aimed to survey the learning quality, possibility of achievement into information, decreasing educational costs and upgrade of scientific level of students in using of digital library.

Achieved results from this thesis showed that effect of using of digital library in distance education process is 95 percent. Tabor (2007) has paid to survey of distance studies by using of compound and incongruent methods. Distance studies and distance learning is the basis of education and study that designed over methods and technology with aim of presenting the teachers work and often in survey personal principles as description of creatively method for the students that follow the physical principles in traditional education . Results show that when the learning and informational source part from each other by lapse of time, doesn't need to presence of person in distance education and in that they benefit from incongruent and compound educations. Masic (2009) did the research by name of "methods of distance education for medicine teaching". In this research, using and development of DL method can be very important. About a decade, this method has showed so much ability towards using science and technology. Using the technology information in the form of scientific in an educational step is very important and it take into account the part of IT advantages. This research has did by this aim that physician can treat all of patients by presence of students and in from of online and they can perform a lot of these conditions in form of distance surgery, distance radiology and... Results show that development and expression of technology information in this field will help to creation the structure for learning estimation of all of teachers and students and will become good action for development and teaching of university population.

These standard educations can help student cadre and have a good educational and work way. Burnz (2011) did a research by name of "distance education for teachers study: models and methods".

Points of Burns suggested in many universities in 2011. The aim of this research is survey of contemporary learning and non contemporary learning that is companion with development of internet by distance education. Contemporary learning technology is demonstrating of teaching in traditional classes and never the less be benefit, it need organization and without timing course that include web conference, video conference direct and satellite networks of DBS and radio and internet. These are flexible and students have not to surely gather to gether in a place and answers present in form of internet in this method. Non coordinate learning is also the method that in which do non coordinate estimations over diagrams that is much more flexible and doesn't need that students present in the classroom at the same time and they receive the answers in form of email. Obtained results from this research show that active world is one of the most important three dimensional worlds that estimate with using contemporary and non contemporary learning. Providing active world for students is possible in a certain framework. Also, with using this plan, it has four advantages include wide estimates, continuous and calm capacities, make money for existed markets, and making quickly the institutional transfers. what is result from the researches that did in inside and out side of country is that distance education as a new educational method can completely be flexible and different in terms of planning and performance in each county and generally can mention from that as a educational method for that country and that region and other that in many researches that did in inside and out side of country have worked with component such as achievement into distance education, being possible of performance of distance education, being cheap and being inexpensive of distance education being benefit of using digital library, being benefit of education inform of non-presencely, simple access into information, optimum use of internet in the performance of distance educational courses and it is necessary that will be research distance education from another angles and viewpoints.

### RESULTS

In this research has used correlation coefficient of Pierson, ANOVA test, and correlation coefficient of ETA, t for independent samples and one sample t.

**The newer of first question:** Is the meaning fullness relation ship between economic/social grade of students of distance education centers and their perspective into using of digital library?

Table 1. Table of correlation coefficient lest of Pierson ((First hypothesis))

The surveying variable	Number of responders	Correlation coefficient of Pierson	Meaning fullness level
<i>Perspective into economic/social grade</i>	360	0.159	0.003

With regard to this test, because amount of meaning fullness level is 0/003 in Pierson table and this amount is smaller than meaning fullness level of %5, thus the hypothesis will be confirm. Amount of correlation coefficient of Pierson is equal 0/16 that show that the relationship have relatively acceptable intensity. Line gradient of Regersion is also positive in dispersion diagram that expressing that what ever economic/social base of students be higher, will be the better perspective into using of digital library.

**The Answer of second question**

Is the meaning fullness relationship between educational grade of students of distance education centers and their perspectives into using of digital library?.

Table 2. Table of descriptive statistic ((second hypothesis))

Educational grade	Numbers	mean	Standard Deviation
First grade in high school	56	41	15.6
Second grade in high school	64	41.39	33.3
Third grade in high school	28	42.14	41.1
Pre-university	76	42.52	42.2
second grade in technical school	75	42.14	83.1
Third grade in technical school	61	44.98	100

The descriptive statistic table above expressing those students of pre-university, second grade in technical school and third grade in technical school have had better perspective into using of digital library than other students.

Table 3. Table of ANOVA and ETA test ((second hypothesis))

Surveying variable	F test	Degree of independence (freedom)	Meaning fullness level	Correlation coefficient of ATA	Determination Coefficient of ETA
<i>Perspective into educational grade</i>	18.35	5	0.0001	0.454	0.206

With regards to above test, because the amount of meaning fullness is 0/0001 in ANOVA table and this amount is smaller than meaning fullness level of %5, thus the hypothesis will be confirm. Amount of correlation coefficient of ETA is 0/454 that show that this relationship have acceptable correlation intensity.

Amount of determination coefficient of ETA expressing that 20 percent of variance of dependent variable determine by variance of independent variable.

The Answer of third question: Is the meaning fullness relationship between kid of educational center of students of distance education centers and their perspective into using digital library?

Tables 4. Table of descriptive statistic

The surveying variable	Number of responders	mean	Standard deviation	Mean of standard deviation
Perspective into in to high school	201	40.71	2.53	0.17
<i>Perspective into technical school</i>	159	44.33	1.95	0.15

Table of descriptive statistic of above show that the technical school students have allocated the better perspective mean than the high school and the pre university school in using of digital library.

Table 4. Table of t-test for independent samples ((third hypothesis))

The surveying variable	t-test	Degree of in dependence (freedom)	Meaning fullness level	Mean difference
<i>Perspective into kind of educational center</i>	-15.28	357.78	0.0001	-3.62

With regards to above test, because amount of meaning fullness level in table of t-test is 0.0001 and this amount is smaller than meaningfulness level of %5, thus the hypothesis will be confirm

**The answer of forth question**

Is the different perspective into using of digital library between boy and gird students of distance education centers?

Table 5. Table of descriptive statistic

The surveying variable	Number of responder	Mean	Standard duration	Mean of standard deviation
The perspective into using of digital lib rare, the boy	155	42.63	2.99	0.24
<i>The perspective into using of digital lib rare, the girl</i>	205	42.07	2.84	0.19

The table of descriptive statistic show that the boy and girl students didn't have meaningfulness difference of perspective into using digital library with each other, but the boy have allocated a few mean more than the girls, though this difference is not meaningful

Table 6. Table of t-test for independent samples ((forth hypothesis))

The surveying variable	t-test	Degree of independence(freedom)	Meaningfulness level	Mean difference
Perspective into gender	1.78	358	74%	55%

With regard to above test , because amount of meaningfulness level is 74% in table of t-test and this amount is higher than 5% meaningfulness thus the hypothesis will be reject.

The answer of fifth question: in the perspective into using of digital library between students of distance education centers more than medium level?

Table 7. table of discretional statistic ((fifth hypothesis))

The serving variable	Number of responder	mean	Standard deviation
Perspective into digital library	360	57/68	2/91

Table of discretional statistic show that acquisitive mean of sample is equal with 57/68 that mean of society is higher with 7/68 difference and expressing that perspective into using of digital library and statistic society is higher than medium level

Table 5. table of one-sample t-test ((fifth hypothesis))

The surveying variable	t-test	Degree of independence(freedom)	Meaningfulness level	Mean difference
Perspective into using of digital library	49.93	359	0.0001	7.68

With regard to above test, because the meaningfulness level is equal 0.0001 and its amount is smaller than 5% meaningfulness level, thus the above hypothesis will be confirmed.

Clearly can show the exact place of perspective into using digital library over following spectrum.

80



**CONCLUSION**

About relationship between economic/social base of student of distance education centers and their perspective into using digital library, with regard to 0/003 meaningfulness level in table of correlation coefficient of Pierson compare it with 5% amount of allowed error, the above hypothesis will be confirm. Also line gradient of Regression in dispersion diagram was positive and expressing that whatever economic/social base of student be higher, they will have better perspective into using of digital library.

About educational grade of students of distance education centers and their perspective into using digital library, with regard to 0/0001 meaningfulness level in table of ANOVA and ETA test and compare it with 5% amount of allowed error, the above hypothesis will be confirm.

Also table of description statistic expressing that student of pre-university, second grade in technical school and third grade in technical school level had better perspective into using digital library than other students.

About kind of educational center of students of distance education centers and their perspective into using of digital library, with regard to 0/0001 meaningfulness level in table of t-test for independent samples and compare it with 5% amount of allowed error, the above hypothesis will be conform. Also table of descriptive statistic expressing that the technical school students have allocated better perspective than the pre-university and the high school students in using of digital library.

About perspective into using digital library among girl and boy students of distance education centers, with regard to 74% meaningfulness level in table of t-test for independent samples and compare it with 5% amount of allowed error, the above hypothesis will be reject. Also the table of descriptive statistic show that the girl and boy students didn't have meaningfulness difference with each other in terms of perspective into using digital library, but boys have allocated a few for amount than girls, though this difference isn't meaningful.

About perspective into using of digital library among student of distance education centers and it's more than medium level effect among student of distance education centers, with regard to 0/0001 meaningfulness level in table of the one sample t-test and compare it with 5% amount of allowed error, the above hypothesis will be confirm. Also table of above descriptive statistic show that the acquisitive mean is equal 57/68 and is higher than society mean with 7/68 difference and expressing that perspective into using of digital library is more than medium level.

Results of the above tests with 95 present certainty showed that it is meaningfulness relationship between economic/social base, educational grade and kind of educational center of students and perspective into using of digital library but it isn't meaningfulness relationship between gender and perspective into using of digital library. Also perspective into using of digital library among students of distance education centers is higher than medium level.

**Suggestions**

- 1- The research has need more time for become productive but researcher for the reasons didn't have possibility to optimum using of time, thus suggest than in the future researches present more exact planning for time management till the research has a few meekness.
- 2- With regard to past researches in field of this subject and more than extend rely on opinion of specialist and managers, suggest that for better and more efficient survey of the role of using of digital library in distance education process, it does another researches based on opinions and viewpoints and student's parents.
- 3- In this research had survey the role of using of digital library in distance education process from view point of distance education centers students of province of Kermanshah and suggest that in the future research will be survey the view point of student in another province.

4- In this research has used opinions of students for the first time. For this reason researcher has been force to does a general research in level of the whole of province, thus suggest that in the future research will decrease this process into province boundary and or even zone.

5-

#### REFERENCE

- Afzalnia MR. 2005. Design and familiarity with centers of material and references of learning Tehran, Samt publications.
- Alhosseini SH, 2006. collection of theses of distance education. Tehran: institution of distance education.
- Alipor F. 2007. Surveying the effectiveness of activities of distance education from the perspective of managers and experts of distance education centers in education of province of Kermanshah in education year of 2006-2007, MA thesis, Azad University Of Kermanshah.
- Burns M. 2011. Distance Education for Teacher Training, Models and Methods, Doctorate thesis, Degree awarding Powers and University title", UK: Quality Assurance Agency.
- Hafeznia MR. 2007. The introduction over research method in human sciences, Tehran, Samt Publication.
- Jamshidi Tavana A.2006. Evaluation of education regulation of distance education high school course from viewpoint of distance managers, teachers and students of Tehran. MA thesis of Payamenoor university, Tehran.
- Masic I. 2009. Tele-Education as method of medical Education. med Arh, 63(6): 350-3.
- Rezaei GR.2009. Survey the role of using digital library in distance education process, in distance education centers of province of Kermanshah from the perspective of specialist in education year of 2008-2009. MA thesis, Azad University of Kermanshah, Iran.
- Sayfe Naraghi M, Naderi E.2005. Measurement and testing and the analytic basics and its tool in education sciences and psychology. Arasbaran Publication, Tehran.
- Seeyadat A.2006. Electronic education is step forward. Changing the education learning process, the research scientific journal of Kamal third year number 10.
- Tabor SW. 2007. Narrowing the Distance: Implementing a Hybrid Learning Model, Quarterly Review of Distance Education (IAP). 8(1): 48-49.