Digital Library Resource and Its Impact on Research Publications

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Abstract

The aim of study to explore up to what extent the impact of digital library resource in research publication by using secondary source of data from websites of libraries and by conducting the interviews from the student who having the knowledge of scholarly research also collection of data from the faculty members of different universities of Pakistan. This study is qualitative in nature and data analysis is based upon QSR NVivo 10.finding shows these scholarly publications as well as other assignments and task of students and faculty member are fulfilled due to digital library resources.


Introduction

The concept digital library is well known now a days. A national-level electronic library having sole example of HEC National Digital Library of for such a developing country like Pakistan. (Higher Education Commission of Pakistan , Retrieved July 24, 2008,)Higher Education Commission (HEC) in
September 2002 was reshaped by Pakistan’s University Grant Commission (UGC). Institution that having aim of high learning must be registered to HEC. In Pakistan there is near about 250 institutions are registered to this national digital library (Warraich & Tahira). From many years, concern author in information science as well as computer science and all other information systems have argue that new aspect of the worker knowledge express with the help of greater access to digital library technologies (Vogt, 1995; Guevara & Ord, 1996). In current study we will discuss the relationship exists in number research publications and access of digital libraries in the university of Pakistan also digital libraries role in teaching learning in higher education level

**Literature Review**

Studies found the advantages of digital libraries are more than the traditional libraries a user of this digital libraries become depositor too means to submit their research work and published it easily, (Marchionini & Maurer, April 1995) study also describe the digital libraries helps learn learning as well teaching by adopting the technology model three type of learning, informal learning, formal learning, professional learning. With the help of literature and discussion study found the digital libraries meet the need of teaching and learning. A case study of three different college of UK investigate the digital libraries resource and impact on further education sector, (Appleton, Vol. 24 No. 5, 2006) This research is purely qualitative in nature and result based on interviews to teachers and focus students group. Finding shows that ELR electronic libraries resources helps further education learning. (petar, 2000) Studies found the libraries trend digital libraries assessing help not even further studies but young children also clear their complex concept. Housewright & Schonfeld (18 august 2002) investigate there is relationship exist between faculty and digital libraries data collection was held in 2006 and compare this data to data from 2000 to 2003. analysis shows the increasing trend of using libraries also these faculty depends their research and teaching on it they forecast their dependence continue decline in future. (Roes, August 2001.) Found the ongoing changes trend in education and effects of digital libraries also these libraries play vital role in information literacy which is part of educational innovation.

The informative literacy person is one who have ability of decision making and who is active participant of independent culture. (COLLIER) explore the digital learning help the user in learning as goal. in the process of information searching these digital libraries also helpful to caching. (borgman) explain the function of digital libraries in broad sense but also in research perspective these are content collect and organized the communities on the behalf of user. (Harter) investigate the problem in the communication of scholar in digital libraries also the properties of traditional research libraries study is on the basis of literature and explore the problem and issues due to using the digital research libraries.

Al-Ansari (2006) Present the use of internet and the impact of it using on research and teaching also explore the problem using internet. Data collection was with the help of questionnaire expert reviewed and pilot testing was also considerd.491 potential participant are response these questions finding shows the use of internet from last five year is more. They use for their research and publication and they face many problems while using internet slow speed lack of time lack of access from the home is major problem. (Choi, 2006) Examine the service of digital library by surveying the sixty digital library finding shows it made searching easy and use for digital reference.

Collier (2006) investigate the changing occur in higher education sector due to digital libraries and finding indicates the changing taken place in scholarly publishing industry. (Li 2006) Academic libraries play great role in teaching and researches in the era of digital. (Sharifabadi 2006) the digital libraries to e learning and also in research perspective this contact the faculty scholarly societies and publisher to enrich online scholarly resources. (Genoni, Merrick, & Willson, 2006) Surveys and focus group shows the relationship exists between researcher and libraries. Covi (1999) found the libraries have easy accessible increases the academic researches.
Research Model

![Digital library resource](image1)  ![Research output](image2)

Hypothesis

There are significant positive relationships between digital libraries and research publications. Relationship between researchers and libraries resource. (Paul Genoni, Helen Merrick and Michele A. Willson 2006)

Objective

To find out the relationship between digital library resources of universities and its impact on faculty and student research productivity.

Data Collection

Data collected from the university student and faculty member sample size is 50 and tool for data collection is interviews. Secondary data collection from the HEC national library website.

Data Analysis

Many researchers (Iodhi & Malik, 2013) and (Qian, 2011) used QSR Nvivo for analysis their qualitative data.

![Graph showing relationship between pre-HEC and post-HEC publications](image3)

This graph shows the relationship between pre-HEC and post-HEC publications in each year from 1992-2011.
In each year article published by Pakistani researcher due to HEC digital library resource 2003-2011

Graph#2
(National digital library of pakistan)These graph shows the stronger relationship exist b/w the digital library of HEC and research publications.

Data analysis with the help of QSR N vivo 10 that software basically used for qualitative data analysis this is very helpful software (Ozkân) The student who engage in higher level studies and they having the know how research paper and publication that are our target population cluster sampling technique use for data collection and result shows by using N vivo technique for data analysis.
This figure shows the respondent perception about digital library resource of the universities and the consequences of our study, they feel less physical effort when they study in sitting a digital library paid websites also in the access of those students. Respondent also feel publication is part of learning.

Figure 2: Word tag cloud

This figure shows the frequency of various word used during interview and the size of that words also due to frequent usage of that particular word.

Nodes compared by number of items coded

Figure 3: Tree map

Deeper study, jobs and education, thesis in time, access to journal are some nodes of above tree map these nodes are derived from the data transcribed from the interview that are in the favor of that digital libraries who helps researcher in publications as well as for completion of assignment and projects.
Conclusion

Our finding and graphs shows that this digital libraries resource helps the researcher for publication. Testing of our H1 will be in this manner there is strong positive relationship b/w digital library resources and research publications, so we have to increase this resource in our institutions’ because the students as well faculty member are highly concern to research publication.

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