

See discussions, stats, and author profiles for this publication at: <https://www.researchgate.net/publication/324872106>

# Challenges Facing Students Toward ICT Library Adoption

Conference Paper · April 2018

DOI: 10.23918/icabep2018p23

---

CITATIONS

16

READS

2,584

1 author:



Alaa S. Jameel

Cihan University

63 PUBLICATIONS 1,122 CITATIONS

SEE PROFILE

## Challenges Facing Students Toward ICT Library Adoption

Alaa Salam Jameel

Department of Health Administration / Faculty Administration and Financial Sciences,  
Cihan University, Erbil, Iraq  
Email: [salam.alaa23@gmail.com](mailto:salam.alaa23@gmail.com), [alaa.salam@cihanuniversity.edu.iq](mailto:alaa.salam@cihanuniversity.edu.iq)

Doi:10.23918/icabep2018p23

### Abstract

The purpose of this study to find the main challenges facing students toward ICT library adoption and assess the level of Cihan university library

Design/methodology/ the study uses a quantitative and qualitative methods to investigate and exam the model factors (Quality of Equipment, awareness of IT by students , electronic resource of library and Student Training,) and Students assessment to the academic library, The sample consists of 100 students from Cihan University-Erbil Findings: The result showed Cihan library own a good quality equipment and facilities, the students with moderate awareness of IT, however Cihan library suffering poor electronic resource such as e journal subscription, however Cihan library should pay attention more to library automation and provide students training and increase the students awareness for ICT library using , the study found main challenges facing Cihan library users lack of Electronic Resource and lack of students training.

**Keywords:** ICT Library, awareness of IT, Quality of Equipment, User perceptions.

### 1. Introduction

Nowadays the technology have a huge impact to academic field (teaching and learning process), the universities duty changing the style and way of teaching, universities should adopt new technologies such as academic libraries. Information Communication Technologies (ICT) is a part of many services academic technology provides for their students at universities.

The purpose of this study to find the challenges facing cihan students of ICT adoption at Cihan University –Erbil Library and students' perception of this case however, to provide the evaluation of the ICT adoption in Cihan Library. the study consists from quantitative and qualitative methods using questionnaires as the primary method of data collection. The study was conduct at Cihan University-Erbil Library which was founded in 2006 the university is private owned however the teaching is

conducted in English. The study contributions to the literature review about universities and academic libraries. Lack of studies about this area.

Cihan university suffering of lack adoption of technology system the students doesn't own the students portal as well lecturers Cihan library still with poor e journal subscription, students still get them result by hard copy because the doesn't have students portal if we compare this with abroad universities we still late to use and adopt ICT in academic library at university also lecturers they are not able to find plagiarism of students assignment because they didn't provide by university.

### *1.1 Research Questions*

Q1) what are the challenges facing the students toward ICT adoption library at Cihan university?

Q2) what are the student's assessment for Cihan library?

## **2. literature review**

(Apulu et al., 2011) define ICT organized networks such as software, hardware and information technologies. (ELISHA et al 2006) described ICT like umbrella term that consist from communication device.

According Eze et al 2013 found the poor internet connection, electricity, technology support, high cost of ICT adoption and technology infrastructures, most significant affect of ICT adoption, however university willingness has a major influence of ICT adoption, adoption affected by technology to enhance learning at universities also affected by trust and motivation, the lack of necessary skills are affected to use ICT in most institutions.

(Okon E et al 2005) reported the lack of staff training and negative attitude of university top management on ICT adoption are important dominations against adoption of ICT in university libraries, the obstacles facing the ICT adoption in libraries are lack of awareness by students or user and the poor attitude of staff towards library automation. Siriwongworawat (2003) showed in his study which conducted in Thailand many universities started to computerise some, or all, of libraries and launched to adopt IT and working to Library automation since 1980, however the Electronic information resources more efficient to provide services for library users and students and enable the students easy to access and search about theses, e-book e-resource, articles and so on. Ekberg et al (2018) reported in the study which conduct in secondary schools in Sweden the biggest challenges of ICT adoption were teaching and teaching preparation and time consuming for teachers to find digital resources. Oduwole (2005) studied 18 universities that had automated their libraries and using cataloguing process and found automation library and cataloguing process adoption had increased the

productivity and efficiency in these libraries, However, increase of maintenance cost, poor computer literacy of the library staff ,poor electricity and poor IT infrastructure all these factors affected to library automated.

ICT adoption at universities has positive influence on students and lecturers, the benefits of ICT adoption for students comfort in learning and motivates, using technology in academic field will help the students and lecturers access for new information and get update resources also will improve the communication between the lecturers, staff and students, however, provide contact with around the world through exchange the information and academic work (Adedokun-Shittu et al 2015)

(Saleem et al 2013) they suggest five applications of ICT academic libraries (Library Automation, Library Networking, Library Management, Digital Library and Technical Communication) this applications are increasing in academic libraries, with highly affect to ICT adoption, the academic libraries should increase the awareness (Video Conferencing)among the users to increase the usage of ICT, and according the study found few libraries are provide video conferences because of fewer consortiums, if the consortium with other libraries will increasing the user of video conferencing will increase too.

(Ivwhreghweta 2013) found using and adopt ICT in libraries will help the users students, lecturers and researchers for internet browsing and preparation of their lecture. Using ICT in libraries will lead to increase the productivity and efficiency, however, the major challenges facing ICT adoption funding and electricity.

Academic libraries play important role in introduce the information to users in various filed, the applications which need it by libraries include online resources such as electronic book, electronic journals, electronic magazines, etc. however, researchers mentioned lack of ICT policy negatively affect to academic libraries, poor funding one of other factor effect to academic libraries not only on the part of government but also in private universities as well. (Elisha et al 2006) Now day more and more libraries use new technology adoption due more effective and for storage, by adoption ICT libraries can store a big number of information and users can access to this information from anywhere, anytime without any geographical barriers, modern technology tools have been changed the traditional teaching and made distance learning education more effective. (Perera et al 2010) Most of the studies pay attention to how adopt ICT rather than use it and ICT applications become a major interest of researchers because of the benefits that can be get it from these applications. (Jameel et al 2014)

### 3. Methodology

This study used quantitative (questionnaires) and qualitative (literature review) methods to obtain data from 100 students in Cihan library, students selection was randomly. The questionnaire consist five Likert scale from strongly agree to strongly disagree. Which relate to ICT provided by Cihan academic Library.

### 4. Analysis and discussion

	Mean	Status
	3.68-5	High
	2.34 - 3.67	Moderate
Table 1 The weights used to define the status of agreement for each item	1- 2.33	Weak

#### 4.1 Reliability statistics

Reliability was measured using Cronbach's alpha, as it is the most accepted reliability measure. The Cronbach's alpha for the four dimensions showed acceptable reliability values (Table 2).

**Table 2** Cronbach's alpha of the study Factors.

Factors	Cronbach's alpha	No. of items
Quality of Equipment	0.74	5
Awareness of IT by Students	0.83	4
Electronic Resource of library	0.78	5
Student Training	0.69	2

**Table 3** Factors, items, No. of items, Mean and Status.

Factors	Items	No. of items	Mean	Status
<b>Quality of Equipment</b>	Computer condition	5	3.99	High
	Internet quality		3.02	Moderate
	Computer availability		4.11	High
	Print/copy availability		1.44	Weak
	Computer comfort		3.78	High
<b>Total</b>			<b>3.26</b>	<b>Moderate</b>
<b>Awareness of IT by Students</b>	Through colleagues	4	3.12	Moderate
	Self-study		3.95	High
	Attending IT program \course		1.32	Weak
	Attending workshops/seminars		1.09	Weak
<b>Total</b>			<b>2.37</b>	<b>Moderate</b>
<b>Electronic Resource of library</b>	Web resources	5	3.38	Moderate
	Database		2.99	Moderate
	E-journals		1.10	Weak
	E-books		0.00	Weak
	E-theses		0.00	Weak
<b>Total</b>			<b>1.45</b>	<b>Weak</b>
<b>Student Training</b>	University providing training	2	1.88	Weak
	Privet training		2.78	Moderate
<b>Total</b>			<b>2.33</b>	<b>Weak</b>

According the result showed table 3 the first factor Quality of Equipment overall with 3.26 status moderate, however, the Items with high statuses, Computer condition, Computer availability, Computer comfort that is mean Cihan university library has a good equipment and facilities but Cihan library still suffering of lack print and scanning availability inside the library with Moderate internet quality.

Second factor Awareness of IT by Students according the result showed in table 3 the overall with 2.37-status moderate, the items with high degree 3.95 self-study item, student has a lack of Attending

IT program/course and Attending workshops/seminars which didn't provide it at university to increase the students awareness with weak statuses, however awareness and learn Through colleagues was with moderate statuses.

Third factor Electronic Resource of library mean result showed 1.45 with weak statuses, Web resources, Database showed Moderate statuses in same time library suffering from poor of electronic (books, journals and theses) with weak statuses.

Fourth factor Student Training degree 2.33 with weak statuses, University providing training course with weak degree however, Privet training with moderate statuses, that is mean students depend on them self to learn ICT skills which university should provide it for them.

## 5. Conclusion and Recommendations

Depending on result Cihan university library have a moderate quality of equipment and facilities, which help the students to use the library with moderate students awareness by IT in same case library suffering from poor electronics resources and this elements important for booth students and lecturers because university requirement for both need from students project paper as a graduation requirement and require from lecturers paper publications this electronics resources will help and encourage them specially if own a good journals subscription, however, Student Training should provide by university to let them know how to use the electronics library and provide for them accounts to be able access to electronic library which will help the students to get them result and materials online and others . main challenges found lack of electronic reassures and lack of students training.

Cihan library should give more attention to library automation and provide training course and workshop about ICT library and improve the electronics system at university which will led to get a good benefits for university and students will help the students to easy access to all the new information, university requirement and announcement however will help university to save the time and give more opportunity when have a system and university should create a student's portal.

## References

- A.A. Oduwole, (2005),"Information technology applications to cataloguing in Nigerian university libraries", *The Electronic Library*, Vol. 23 Iss 3 pp. 289 – 294 Permanent link to this document: <http://dx.doi.org/10.1108/02640470510603688>
- Apulu, I., Latham, A. and Moreton, R. (2011), "Factors affecting the effective utilisation and adoption of Sophisticated ICT solutions", *Journal of Systems and Information Technology*, Vol. 13 No.

2, pp. 125-143.

- Elisha, M. J. (2006). The application of Information and Communication Technology (ICT) in Nigerian academic libraries prospects and problems. *Information Manager (The)*, 6(1), 35-39
- Jameel, A. S., Abdul-Karem, M., & Mahmood, N. Z. (2017). A Review of the Impact of ICT on Business Firms, *International Journal of Latest Engineering and Management Research*, Volume 02. Issue 01. January 2017. PP. 15-19
- Ivwhighrehweta, O. (2013). The application of information and communication technology on academic library operations and services in Nigeria. *International Journal of Digital Library Services*, 3(1), 12-22.
- Nafisat Afolake Adedokun-Shittu, Abdul Jaleel Kehinde Shittu, (2015) "Assessing the impacts of ICT deployment in teaching and learning in higher education: Using ICT impact assessment model", *Journal of Applied Research in Higher Education*, Vol. 7 Issue: 2, pp.180-193, <https://doi.org/10.1108/JARHE-02-2013-0012>
- Okon E. Ani, Jacob E. Esin, Nkoyo Edem, (2005) "Adoption of information and communication technology (ICT) in academic libraries: A strategy for library networking in Nigeria", *The Electronic Library*, Vol. 23 Issue: 6, pp.701-708, <https://doi.org/10.1108/02640470510635782>
- Perera, K., & Chandra, D. (2010). Use of information and communication technologies (ICT) in academic libraries: a gateway to the scholarly l. world. In *Emerging Trends and Technology in Library and Information Services. The 2nd International Symposium ETTLLIS* (pp. 97-99).
- Saleem, A., Shabana Tabusum SZ, and M. Sadik Batcha. "Application and uses of Information Communication Technology (ICT) in academic libraries: an overview." *International Journal of Library Science* 2, no. 3 (2013): 49-52. DOI: 10.5923/j.library.20130203.01
- Siri Ekberg, Shang Gao, (2018) "Understanding challenges of using ICT in secondary schools in Sweden from teachers' perspective", *The International Journal of Information and Learning Technology*, Vol. 35 Issue: 1, pp.43-55, <https://doi.org/10.1108/IJILT-01-2017-0007>
- Suwakhon Siriwongworawat, (2003),"Use of ICT in Thai libraries: an overview", *Program*, Vol. 37 Iss 1 pp. 38 - 43 Permanent link to this document: <http://dx.doi.org/10.1108/00330330310460581>