# Information Literacy and ICT Skills of Library Staff in Selected Federal Polytechnics in Nigeria

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#### **ABSTRACT**

This study assessed the information literacy and ICT skills of library staff in Federal Polytechnics in southwest Nigeria. The study adopted a survey research design and a total population of 154 which cut across six states in the Southwest geopolitical zone with five federal polytechnic. The study adopted stratified sampling techniques from which a sample size of 136 library staff was sampled. The major instrument used for data collection was questionnaire. A total of 154 copies of questionnaires were sent out, from which 136 copies were found to be valid and found fit for analysis. The data were analyzed using descriptive frequency table and mean with the aid of Statistical Products for Service Solutions (SPSS). The study established among others, that the library staff acquired basic information literacy skills through attending workshops/seminars, trial and error, through the help of their colleagues, and through the guidance from library staff; library staff possessed high information literacy skills, which include ability to recognise a need for information resources, distinguish potential information resources, construct strategies for locating information, compare and evaluate information obtained from different sources, locate and access information resources, organise, apply communicate information, and ability to synthesize and build on existing information among others. The study concluded that library staff possess information literacy and ICT skills and they could recognize a need for information resources, distinguish, potential information and deploy the resources appropriately. Besides, the research shows that Federal Polytechnics in Southwest have information resources. The study recommended that Federal government should continuously fund the federal polytechnic libraries to enhance productivity; Polytechnic management should

provide more computers with Internet access in their polytechnics. The bandwidth for Internet connectivity should be increased to improve the speed of accessing information from the Internet among others.

#### I. INTRODUCTION

The concept of "information literacy" was first introduced in the United States by Paul Zurkowski in the early 1970's. Information literacy involves an understanding and knowledge of the structure and sources of information. It is the ability to access and retrieve quality information independently and reflectively in order to build on a personal knowledge base. The rapid development of information technology has forced students to acquire new information skills in order to effectively use the opportunities provided for them by the advancement of information and computer technologies. The radical change in provision of information through the use of Information Communication and Technology (ICT) in this age requires a lot of skills, knowledge and strategies to ensure maximum utilization of information (Omeluzor et al., 2013).

literacy Information comprises competencies to recognize information needs and to locate, evaluate, apply and create information within cultural and social contexts. It is important to the competitive advantage of individuals, enterprises especially small and medium enterprises, regions and nations and provides the key to effective access, use and creation of content to support economic development, education, health and human services, and all other aspects of contemporary societies, and thereby provides the vital foundation for fulfilling the goals of the Millennium Declaration and the World Summit on the Information Society. It further extends beyond

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current technologies to encompass learning, critical thinking and interpretative skills across professional boundaries and empowers individuals and communities (Chanchinmawia & Verma, 2017).

Information and Communication Technology (ICT) is one of the greatest inventions of mankind which played unprecedented roles in changing the landscape of human and organization activities around the globe from which libraries are not exempted. In corroboration to that Dhanavandan, Esmail, Mohammed and Nagarajan (2012) stressed that ICT has drastically changed every facet of human endeavours of which library is not an exception, such that libraries are now deeply engaged in digitization of almost all library resources in order to provide a fast, interactive and dynamic information services to users.

Kehinde and Tella (2012) stressed that some of the valuable resources freely available on the Internet have become indispensable tools for the dissemination of information. In reflection to that, Adebisi (2009) earlier opined that ICT foster users with the opportunity to have unlimited access to information and as such enhance anytime and anywhere access to information in time and space with little or no regard to the location of such information. Information and communication technology is the modern science of gathering, manipulating storing, processing and communicating information.

### **Statement of the Problem**

Academic libraries are very positive with the integration of ICT tools into library operations such that most of them are now equipped with information infrastructure and various ICT based resources and services (even though not adequate in some cases) to cater for information need of users. Achieving the mission and vision of academic institution is the precursor behind the establishment of academic libraries. But no library effectively deploy this information infrastructure without a competent workforce. The current scenario, library staff needs to be trained to serve the present generation of users, who desire to have access to information anytime, anywhere. In reflection to that, uncertainty still exists whether library staff possesses adequate competencies to operate ICT facilities effectively. It is in connection and based on the above gap, the study embarks on the assessment of information literacy and ICT Skills of library staff in selected Federal Polytechnic libraries in Nigeria.

## **Objectives of the Study**

The general objective of this study is to assess the information literacy and ICT skills of library staff in selected Federal Polytechnics in Southwest Nigeria. The specific objectives are to:

- investigate the availability of information resources in Federal Polytechnic Libraries in Southwest Nigeria;
- investigate the information literacy skills of library staff in Federal Polytechnic Libraries in Southwest Nigeria;
- 3. investigate the ICT skills of library staff in Federal Polytechnic Libraries in Southwest Nigeria;
- 4. examine the sources of Information literacy and ICT skills possessed by library staff in Federal Polytechnic libraries in Southwest Nigeria; and
- identify the challenges faced in acquisition of Information Literacy and ICT skill among library staff in Federal Polytechnic libraries in Southwest Nigeria.

#### **Research Questions**

The following research questions will assist the researcher in the course of the study:

- 1. What are the available information resources in Federal Polytechnic Libraries in Southwest Nigeria?
- 2. What are the information literacy skills of library staff in Federal Polytechnic Libraries in Southwest Nigeria?
- 3. What are the ICT skills of library staff in Federal Polytechnic Libraries in Southwest Nigeria?
- 4. What are the sources of Information literacy and ICT skills acquisitions of library staff in Federal Polytechnic libraries in Southwest Nigeria?
- What are the challenges confronting acquisition of Information Literacy and ICT skill of library staff in Federal Polytechnic libraries in Southwest Nigeria.

#### II. METHODOLOGY

This study adopts the descriptive survey design. The population of the study consists of 154 library officers in the 6 federal polytechnics located in Southwestern Nigeria. The study was limited to four (4) federal polytechnics in Southwestern Nigeria. This includes Yaba College of Technology, Federal Polytechnic Ilaro, Federal Polytechnic and Federal Polytechnic Ede. The sample size is therefore one hundred and thirty six (136) which was derived from the total population of the study. An adapted questionnaire was used for



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the study. The data to be collected in this study would be analysed using Statistical Product and

Service Solutions (SPSS).

III. RESULTS

Table 1: Socio-demographic Characteristics of the Respondents

Characteristics	Categories	Frequency	y Percentage (%)
Gender	Female	76	55.9%
	Male	60	44.1%
	Married	85	62.5%
<b>Marital Status</b>	Single	42	30.9%
	Divorce	3	2.2%
	Widow/widower	6	4.4%
	20-25 years	3	2.2%
	26 – 30 years	25	18.4%
Age (in years)	31 – 35 years	20	14.7%
	36 – 40 years	34	25%
	41 - 45 years	29	21.3%
	46 and above	25	18.4%
	1-5yrs	15	11.0%
Years of Experience	6-10yrs	50	36.7%
-	11-15yrs	30	22.1%
	16-20yrs	7	5.1%
	21-25yrs	25	18.4%
	26-30yrs	5	3.7%
	31yrs and Above	-	-
	Ph.D	5	3.7%
Qualification	MLIS/M.Sc	21	15.4%
	PGD	10	7.4%
	HND/B.Sc/BLIS/BEd	65	47.8%
	ND	30	22.1%
	Others	5	3.7%

Source: Field Survey, 2022.

The information contained in Table 1 shows that the distribution according to gender revealed that the majority of the respondents were females (76, 55.9%) while 60 (44.1%) of the respondents were males. This result implied that there was a little disparity in gender distribution of library staff in Southwest Nigeria, as there were more female library staff than their male counterparts.

In terms of marital status, 85 (62.5%) of the respondents constituting the majority were married while the remaining were single (42, 30.9%), divorce (3, 2.2%) and widow/widower (6, 4.4%). In addition, the data revealed that the highest number of respondents (25%) was found in the age bracket of 36 to 40 years, followed by (21.3%) who were 41-45 years age bracket, 25(18.4%) were within the age of 26-30 years and 46, 20 (14.7%%) respondents were found to be

between 31 and 35 years and (2.2%) were between age 20-25 years. The socio-demographic information of respondents showed that most of the library staff are married and are within the age bracket of 36 to 40 years.

On the years of experience of library staff in Federal Polytechnic libraries in Southwest Nigeria, 50(36.7%) of the respondents constituting the majority have 6-10 years work experience, 30(22.1%) respondents have 11-15 years work experience, 25(18.4%) of the respondents have 21-25 years work experience, 7(5.1%) respondents have 16-20 years of work experience while 5(3.7%) of the respondents have 26-30 years of work experience. Also on the qualifications of respondents, majority of the library staff have HND/BSc/BLIS/BEd (47.8%) followed by National Diploma (22.1%), MLIS/MSc (15.4%), PGD (7.4%) and PhD (3.7%).



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**Table 2: Information Resources in Federal Polytechnic Libraries in Southwest** 

Response	Frequency	Percentage %
Books	90	64.3
Newspapers	80	57.2
Magazines	60	42.9
Journals	55	39.3
Novels	60	42.9
Non- printing resources	35	25.0
Others	70	50.0

Source: Field Survey, 2022.

Table2 depict that more than half of the respondents used books 90 (64.3%) and newspaper 80 (57.2%) while only 35 (25.0%) used non-print. Resources information resources such as Books,

Newspapers, Magazines, Journals and Novels as well as others such as References sources are provided in adequate quantity where as Non-Print resources are provided in small quantity.

Table 3 InformationLiteracySkillsofLibrary Staff in Southwest Nigeria

S/N	Informationliteracyskills	Mean	Mode	Std.D
1	Abilitytorecogniseaneedforinformationreso urces.	2.93	3	0.271
2	Abilitytodistinguishpotentialinformationre sources.	3.14	4	0.425
3	Abilitytoconstructstrategiesforlocatinginfo rmation	2.85	2	0399
4	Abilityto compare and evaluate information obtained from differentsources.		3	0.467
5	Abilitytolocateandaccessinformationresour ces	3.01	3	0.463
6	Abilitytoorganize,applyandcommunicatein formation	2.83	3	0.376
7	Abilitytosynthesizeandbuildonexistinginfo rmation	2.98	3	0.383

Source: Field Survey, 2022.

As indicated in table 3 the response to information literacy skills shows that respondents with ability to distinguish potential information resources skill had the highest number of mean score of 3.14. This is closely followed by respondents with ability to locate and access information resources (3.01), while respondents with ability to synthesize and build onexisting information obtained from

differentsourceshavemeanscoreof 2.98. However, r espondents with skillstoorganize, applyand commu nicate information have the lowest mean of 2.83. The finding, however, shows that the meanscores of each of the seven components tested under the information literacy skills is higher than the midpoint scores of 2.5 on a scale of five. Therefore library staff in Federal Polytechnic libraries in Southwest



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Nigeria possessed high information literacy skills based on the overall mean scores.

This result shows that most of the library staff did not acquire informationliteracyskillsthroughthetrainingorgan izedbytheirinstitutionlibraries. This finding is inconsistent with the position of Macgregor and McCulloch (2006) who reported in their finding that the goal of library training is to enable users' community to discriminate between useful and irrelevant information as well as engaging users with information management. In addition, the

University of AucklandAcademic Plan 2005-2007 (2004) canvassed that the polytechnic (library) aims are to provide its users with key, high-level generic skills like the capacity for lifelong critical, conceptual and reflective thinking, and attributes such as creativity and originality. Thus, it is the duty of library management to constantly organise information literacy skills programme in order to develop information literate users.

 Table 4 ICT Skills of Library Staff in Federal Polytechnic Libraries

	Ī	N=30	N= 29	N= 27	N= 25	AVR MEA N	DECISION	
S/No	Item	YABA	FPI	FPA	FPE			
5/110				1111	1112			
		$\overline{X}$	X	$\overline{X}$	$\overline{\overline{X}}$			
		X	X	X	X			
1	ComputerOperation Turningon	3.8	4.0	4.0	3.6	3.9	Accepted	
2	Openingacomputerfile	3.6	4.0	4.0	3.2	3.7	Accepted	
3	Interconnectivity	2.8	3.2	3.7	2.6	3.1	Accepted	
4	Deletingacomputerfile	3.0	3.9	4.0		3.5	Accepted	
5	Creatinga directoryorfolderAccepted	2.9	3.9	4.0	2.8	3.2	Accepted	
6	Copyingafilefromonedisktoanother	2.9	3.1	3.9	2.4	3.1	Accepted	
7	Connectingtointernet	2.8	2.6	3.4	2.6	2.8	Accepted	
8	Installingprogram	2.7	2.3	3.4	3.0	3.8	Accepted	
0	ApplicationSoftware	2.7	2.3	3.4	5.0	5.6	Accepted	
9	Ms-Word	3.1	4.0	2.7	h o	2.4	A 1	
9 10	Ms-Excel	3.0	4.0 3.8	3.7	2.8 3.2	3.4	Accepted	
			3.3				Accepted	
11 12	Ms-Access	3.0 2.6		2.7	3.4	3.1	Accepted	
	Ms-Powerpoint		2.0	2.9		2.8	Accepted	
13	Librarysoftware	3.2	2.2	3.4	3.0	3.0	Accepted	
1.4	InternetSkills	2.4	2.6	2.0	2.2	2.5	A 1	
14	Usingtheworldwideweb(www)	3.4	3.6	3.9	3.2	3.5	Accepted	
15	Sendinganemailmessage	3.2	3.8	4.0	3.6	3.7	Accepted	
16	Usingthewwwtofindspecificinformation	3.2	3.7	3.7	3.0	3.4	Accepted	
17	Takingpartinanonlinediscussionorchat(video conferencing)	2.4	2.1	3.3	3.2	2.8	Accepted	
18	Sendingan attachment with an email message	2.6	2.8	3.7	3.0	3.0	Accepted	
19	Downloadingafile frominternet	3.2	2.6	3.1	3.2	3.0	Accepted	
20	Savinganimageorgraphicfromawww page	2.9	2.7	3.7	3.2	3.1	Accepted	
21	Usingawwwsearchengineegyahoo	3.2	3.7	3.9	3.0	3.5	Accepted	
22	Usingkeyword phrases to search for	3.1	2.4	3.6	2.8	3.0	Accepted	
	informationonthewww						1	
23	Usingmoreadvancesearchingtechniquesthank eywords	3.8	2.4	3.7	2.8	3.2	Accepted	
24	Findingusefulinformationfromwwwsearchin	3.1	3.4	3.5	3.2	3.3	Accepted	
25	Using information from www in projects	3.1	3.6	3.4	3.2	3.3	Accepted	



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CLUSTERMEAN	3.2	3.1	3.6	3.4	Grand Accepted X3.2
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Source: Field Survey, 2022.

The data presented in Table 4 revealed that the mean responses of all theitems are very high with average means above 2.50which is the decision meanor criterion mean. It can thenbe deduced from the table that the ICT literacyskills among the library staff in Southwest Geo-political zone of Nigeriaare high. This is as a result of global emphasis on ICT in every area of life andlibrary staff have also catch up with the emerging trend. The individual clustermeansandthegrandmeanequally showedthatallthe library staffintheseFederal Polytechnics have appreciable ICT literacy skills with cluster means of 3.2 for Yaba Tech, 3.1 for FPI, 3.6 for FPA, 3.4 for FPE and a grand mean of 3.2whichareallabovethecriterionmean.

The result revealed that all the items have their average meanrating from 2.8 to 3.9. It can be concluded that they have high level of ICTliteracy.ICThaspermeatedeveryareaofhumanen deavour,makingit

mandatoryonthepeopletobecomputerliteratethrough variousmeans.Internetskills are necessary foracademic librarians to provide efficientandeffective online services to their patrons in this period of high cost of booksand journals.

Table 5: Sources of Information Literacy and ICT Skills acquisitions of library staff in Federal Polytechnic libraries in Southwest Nigeria

	Items	N=30	N= 29	N= 27 FPA X	N=25		Decision
S/N		YABA X			FPE	AVRX	
					X		
1	FormalEducation	3.4	4.0	3.6	3.5	3.5	Accepted
2	InformalEducatio n	2.9	3.8	3.1	3.1	3.2	Accepted
3	Throughcolleague s	3.4	3.6	3.0	3.6	3.4	Accepted
4	Self-study	3.5	3.5	3.5	3.0	3.1	Accepted
5	Trainingatworkpl ace	3.5	3.9	3.2	2.8	3.4	Accepted
6	AttendingITprogr amme	3.4	4.0	3.5	3.4	3.2	Accepted
7	Attendingworksho ps/seminars	3.4	3.9	3.3	3.2	3.6	Accepted

Source: Field Survey, 2022.

Table5showsthattheitemsreceivedarespons eaveragemean of 3.1andabove which is greater than the criterion mean of 2.5.This indicates that all the responses are accepted or a greed with the statements as methods/means of ICT liter acy

skills. The cluster mean of 3.4,3.7,3.3,3.2, and agrand mean of 3.4 also show that all the universities agreed with the estatements on methods/means of ICT literacy acquisition.

The analysis indicated thattraining is very important in the acquisition of ICT literacy skills. As a result, formal education is the basic channel of acquisition of ICT literacy skills while attendance toworkshops/seminarshave 3.50 whi chisavery

highlevelofacceptance. This is inconsonance with the view of Akhigbe (1997) and Ugbokwe (1988) that training should take the form of continuing education, industrial attachment, formal education programme, on-the-joble arning from experienced colleagues, seminars and others.



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Table 6: Challenges totheirAcquisitionOfICTSkills.

		N=30	=30 N= 29	N= 27	N= 25	AVR	DECISION
S/N	Items	YABA	FPI	FPA	FPE	X	
		X	X	X	X		
1	Financialproblem	3.8	3.2	3.5	3.0	3.4	Accepted
2	PoorICTInfrastructure	3.5	3.2	3.5	3.2	3.4	Accepted
3	Libraryprofessionalsnot interestedinlearningITk nowledge(conservatism	2.1	2.3	3.1	2.8	2.6	Accepted
4	Overloadofworkinghour s	2.8	2.3	2.6	2.6	2.6	Accepted
5	Lackofinterestbythelibr arymanagementinsendin gtheirlibrarianstoupgrad etheirIT skills		3.0	3.1	3.0	30	Accepted
6	Lackofsufficientstaffint helibrary	2.4	2.5	3.1	3.0	2.8	Accepted
7	Limitedopportunitiesoff eredbyIT(lackoftraining opportunities)	2.6	2.9	1.9	2.7	2.5	Accepted
8	Lackofprofessionalreco gnition	2.3	1.7	3.1	2.3	2.4	Accepted
	CLUSTERMEAN	2.8	2.6	3.0	2.8	2.8	Accepted

Source: Field Survey, 2022.

Theresults intable 6indicate the responses of library staff onthe challenges to the acquisition of ICT literacy skills by library staff inSouthwest geo-political zone of Nigeria. From the table, it is revealed that theaverage mean rating for all items with the exception of lack professionalrecognitionwithaverage meanof 2.4are greaterthanthecriterion meanof2.50.Financial problems andpoor ICT infrastructure arethe most challengesto the acquisition of ICT literacy skills. other hindrances are accepted by the librarians. The cluster means of 2.. 8, 2.6, .3.0, and 3.0 with the grand meanof2.8indicatethattheresponsesonhindrancestoI

It can be observed that all the items have average mean ofmorethan 2.5 except the average mean of lack of professional recognition which has 2.4 average mean. This points to the fact that finance and poor ICT facilities were the most factors that hinder ICT literacy acquisition. However, lack of professional recognition was rejected as a contributing factor to the hindrances of ICT literacy acquisition. Chiware (2007) was of the opinion

CTliteracyacquisitionareaccepted.

thatfunding , humanresources , training andretention of skills, interconnectivityandtelecommunicationinfrastructu reweretheproblemalongthewayofsuccessful acquisition of ICT literacy skills. This agrees with the result above.

## IV. SUMMARY OF FINDINGS

The study assessed the information literacy and ICT skills of library staff in selected Federal Polytechnics in Southwest Nigeria. From the analysis of research questions, the following findings and conclusion were reached:

- Information resources that are available in the federal polytechnic libraries are Books, Newspapers, Magazines, Journals and Novels as well as others such as References sources are provided in adequate quantity where as Non-Print resources are provided in small quantity.
- Library staff acquired basic information literacy skills through attending workshops/seminars, trial and error, through the help of their colleagues, and through the guidance from library staff.



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- 3. Library staff possessed high information literacy skills, which include ability to recognise a need for information resources, distinguish potential information resources, construct strategies for locating information, compare and evaluate information obtained from different sources, locate and access information resources, organise, apply and communicate information, and ability to synthesize and build on existing information.
- 4. The library staff members agreed that it was not difficult to find the needed information while using electronic information resources.
- 5. Ability to locate and access information resources had greatly influenced the research productivity of library staff in Federal Polytechnic libraries in Southwest Nigeria
- Financial constraint and low bandwidth (slow connectivity) were major inhibitions to academic staff members of Nigerian federal universities when embarking on research activities.

#### V. CONCLUSION

From the findings of this study, it could be concluded that library staff possess information literacy and ICT skills. They could recognize a need for information resources, distinguish, potential information and deploy the resources appropriately. Besides, the research shows that Federal Polytechnics in Southwest have information resources. The predominant ones are books, journals, e-journals, internet, electronic databases, and so on.

#### Recommendations

Based on the findings of this study, the following recommendations were suggested.

- 1. There should be organized training of the staff in the libraries on the use of information resources so as to efficiently assist academics in accessing and retrieving information for research productivity.
- 2. Polytechnic management should provide more computers with Internet access in their polytechnics. The bandwidth for Internet connectivity should be increased to improve the speed of accessing information from the Internet.
- 3. There should be constant awareness programme for library staff
- 4. Regular funding should be provided for library staff to attend conferences, seminars and workshops to enhance their information literacy and ICT skills.

5. Federal government should continuously fund the federal polytechnic libraries to enhance productivity.

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