## GAP ANALYSIS AND DEMOGRAPHIC DIFFERENTIATION OF UTILIZATION OF TECHNOLOGY-BASED INSTRUCTIONAL RESOURCES AMONG BUSINESS EDUCATORS

### BY

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#### Abstract

The study determined the gap analysis and demographic differentiation of utilization of technology-based instructional resources (TBIR) among business educators in colleges of education in Edo and Delta States of Nigeria. To guide the study, three hypotheses were formulated and tested at 0.05 level of significance. The study employed a descriptive survey research design. The population of the study was 116 Business educators. A census of Business educators in five purposively selected colleges of education in Edo and Delta States was taken because there is availability of Business education programme, and number of Business educators is of manageable size. A questionnaire title: Gap Analysis and Demographic Differentiation of Utilization of Technology-Based Instructional Resources (GDUTBIRQ) validated by experts was used for data collection. The reliability coefficient of the questionnaire was 0.85. The analysis revealed that there exist skill utilization gap among business educators on various TBIR for teaching. Also, the analysis revealed that there was demographic differentiation with regard to TBIR utilization between the less experienced and experienced business educators, resolved in favour of the less experienced business educators. The study, therefore, recommended among others, that efforts should be made by institutions management to educate Business Educators on the use of TBIR to improve teaching and learning activities through Seminar, workshop and Conference.

Keywords: Technology-Based Instructional Resources (TBIR), Business educators, teaching

#### Introduction

Technology has become a credible part of human endeavours in present-day society. A teacher's ability to respond to changes and innovations has become a key factor for instructional success. Business educators do not only need to use technology effectively in their teaching, but they also need to guide and direct the students in using the tools to enhance their learning. By utilization, it means using something especially for practical purposes. The knowledge and skills of the various components of technology-based instructional resources are practically related and knowledge-based to the extent that when fully utilized enables instructors to bring collectively the technology resources that promote effective teaching. Utilization in this context is how often the TBIR is applied by business educators in colleges of education in their instructional delivery for the purpose of benefit maximization. However, it is presumed that utilization of TBIR by business education, working experience, and probably the level of exposure in terms of the training they have received. Demographic variable have been describe as a major factors that may influence or predict the use of TBIR by individual. Among the demographic factors that are

often cited as having an influence on TBIR utilization are gender, income, level of education, skill and age (United Nation Development Programme- UNDP, 2011; Inan and Lowther, 2009).

Technology-based instructional resources are those modern technology based tools for passing knowledge, from teachers to students within the classroom or outside. The use of technologybased instructional resources (TBIR) in teaching Business education courses are expected to provide the Business educators with several tracks through which to retrieve knowledge and foster effective teaching. It is expected of business education teachers to utilize and guide the students to use these media as a source for their learning in ways that are wise, safe, and productive. Meanwhile, Business education teacher, Business educator, and teacher will be used interchangeably. TBIR can impact on the work of business education teachers in a variety of ways, ranging from gaining easy access to information, greater interest in learning, increase retention of information, better presentation of information, to teaching made interactive as well as knowledge sharing made easy (Shahnawaz and Vikas, 2007). It can be added that technology can be of benefit to any teacher, through improved instructional delivery whereby teachers can use technology to meet the individual needs of students. Specific programme application or website gives teachers the option to offer content to the student at different levels, thereby allowing them to access materials at their own pace. The goal of instructional technology is to understand how people learn and how to best design instructional systems and instructional resources to facilitate that learning.

It can be added that TBIR is considered to have influenced teachers in different ways, depending on the circumstances in which each TBIR is utilized to enrich the learning process for the users or learners. Business education teachers can use such tools to create active learning environments that would encourage students to collaborate, or participate in inquiry-based learning (Abdelraheem & Asan, 2006). Educational institutions must recognize that the world has changed. Employers, teachers, and students have needs that our current delivery system is not catering for. New ways must be explored to deliver education to our students through numerous TBIR as well as software application tools with potentials in education. The teachers are expected to make use of such tools or everything provided by the institution. However, if teachers are not aware of the different TBIR available or what they can do, they will not be able to use them optimally. A gap analysis is a process of determining the difference between current knowledge/practice (what we are doing) and current evidence based practice (what we should be doing). Gap can occur in knowledge, skills or practice (Anthony, 2012). Thus, a gap analysis could equally be a needs analysis, but it allows for a more standardized process of determining what the gap-in-knowledge (or need) is. Therefore, determined differences in Business educators' use of TBIR is the effort geared towards increasing the level of knowledge, and skills possessed by business educators to enable them perform effectively towards enhancing proficiency, in meeting the objectives of business education in Colleges of Education in Edo and Delta States, Nigeria.

Meanwhile, this study is hinged on the technology acceptance theories with specific attention to the technology acceptance model by Fred Davis, (1989). The Technology Acceptance Model (TAM) is an information systems theory models propounded by Davis in 1989. This model suggests that when users are presented with a new technology, a number of factors influence their decision about how and when they will use it, especially, its Perceived usefulness (PU) -

"the degree to which a prospective user believes that using a particular system would enhance his or her job or life performance".

Perceived ease-of-use (PEOU) - "the degree to which a prospective user believes that using a particular system would be free of effort".

## Statement of the Problem

Application of technology in pedagogical practice by business educators seems to be worrisome, despite the potential for change and improvement to higher education through the application of technology. Yet, colleges of education seem not to have enough requirements for using technology-based instructional resources (TBIR). However from the observation of the researcher, there seems to be no clear evidence of appreciable level of utilization of TBIR for instructional purpose among business educators in Colleges of Education. literature has shown that not much of digital technologies are used in pedagogical practices by business educators in Nigerian colleges of education, thereby placing the students at the disadvantages in the labour market, due to lack of modern day technological skills required of them by the employer of labour. Could it be that business educators are not fully employed Technology-Based Instructional Resources (TBIR) in their instructional delivery to avail the students opportunity in the world of work, though, literature has shown that these resources are in existence but are only gradually taking over in teaching and learning process.

## **Purpose of the Study**

The main purpose of this study was to determine gap and demographic level of utilization of technology-based instructional resources among Business Educators in colleges of education in Edo and Delta State. Specifically, the study determines:

- 1. The skill needs of business educators in the utilization of Technology-based instructional resources (TBIR) for teaching business education courses
- 2. The difference in the use of TBIR among business educators based on teaching Experience
- 3. The difference in the use of TBIR among business educators based on academic qualifications

# Hypotheses

The following null hypotheses were formulated for the study and tested at 0.05 level of Significance.

- 1. There is no significant difference in the mean responses of business educators between possessed and expected skills level of utilization of TBIR for teaching.
- 2. There is no significant difference in the mean responses between less experienced and Experienced business educators in their use of TBIR for teaching
- 3. There is no significant difference in the means responses among holders of First Degree, Master Degree, and Doctoral Degree Business educators in their use of TBIR for teaching.

# Methodology

The study used Descriptive survey research design. The population of the study comprised 116 Business educators, in the colleges of Education in Edo and Delta States. A census of Business educators in five purposively selected colleges of education was taken because there is availability of Business education programme, and number of Business educators is of manageable size. A questionnaire title: Gap Analysis and Demographic Differentiation of Utilization of Technology-Based Instructional Resources (GDUTBIRQ), validated by experts was used for data collection. The reliability coefficient of the questionnaire was 0.85. The questionnaire was made up of two sections (A & B). Section A was made up of demographic variables of the respondents such as Gender, educational qualification, and working experience. While, Section B contains 25 questionnaire item statements that relate to utilization of TBIR, each item in section B has a five-point Likert scale response options of Very Highly Utilize (VHU), Highly Utilize (HU), Averagely Utilize (AU), Slightly Utilize (SU) and Not Utilize (NU) for possessed and expected column with 5, 4, 3, 2, and 1 weights respectively. The statistical tools used for data analysis were mean ( $\overline{x}$ ), Standard deviation (SD), t-test, and Analysis of Variance (ANOVA). Mean and Standard deviation were used to answer the research questions while t-test statistic was used to test hypotheses. For research questions 1, Mean and Difference in Skill Utilization Index (DUI) was employed as follows:

(a) The mean (Xp) of the possessed category was determined for each item.

(b) The mean (Xe) of the expected category was determined for each item.

(c) The Skill Utilization Gap (SUG) was determined by finding the difference between the value of the two means each for Utilization. That is (Xe - Xp) = SUG

Where SUG was negative (-), or equal zero it means utilization was not needed,

Where SUG was positive (+), it means utilization was needed for that item.

The remarks for the research questions 2 was based on a weighted aggregate mean of the mean of 3.00 and real limit of the mean value also considered.

### **Results and Discussion**

**Table 1**: Mean, Standard Deviation and Mean Difference on the Level of Utilization of TBIR for teaching

		Possessed		Expe	ected	Gap
S/N	Item Statements	Mean	SD	Mean	SD	Mean
16	Ability to deliver lecture through the internet	1.66	.614	4.57	.567	2.91
17	Ability to create life web conference (web- quest	t)				
	and build internet into lesson	1.58	.613	4.47	.648	2.89
18	Ability to create a video conferencing for teachin	g				
	through internet	1.86	.648	4.46	.603	2.60
19	Ability to post classroom news, activities an	d				
	resources through internet	1.69	.633	4.37	.744	2.68
20	Ability to use internet photos, videos, and website	s				
	to enhance printed materials such textbooks	1.71	.548	4.39	.639	2.68
21	Ability to use mobile internet devices to access	S				
	internet and obtain materials for teaching business	S				
	subject	2.56	.645	4.42	.582	1.86
22	Ability to use Laptop Computer for teaching	1.68	.639	4.44	.645	2.76
23	Ability to use Digital Camera	2.46	.766	4.42	.750	1.96
24	Ability to deliver/prepare lecture through I-Pod of MP3 Player	<sup>or</sup> 1.64	.587	4.51	.663	2.67
25	5	NC .				2.07
23	Ability to exchange e-mail address with colleague		.701	1 55	536	2.85
	and students on issues relating to business subject	1.70	./01	4.55	.536	2.85

			essed	Expe	ected	Gap	
S/N	Item Statements	Mean	SD	Mean	SD	Mean	
26	Ability to communicate assignment to student						
	through e-mail on issues related to business subject and add attachment to buttress where necessary	t 1.79	.684	4.54	.571	2.75	
27	Ability to received completed/solved assignmen from students from time to time through e-mail	it 2.62	.637	4.55	.617	1.93	
28	Ability to receive project topics from students for						
29	modification and approval through e-mail Ability to received and comments on students	,1.73	.635	4.58	.628	2.85	
20	project through mail	2.51	.677	4.50	.717	1.99	
30	Ability to communicate class activities to student through the cloud based tools	s 2.43	.615	4.58	.672	2.15	
31	Ability to organize class for students through zoon application	n 1.79	.698	4.37	.620	2.58	
32	Ability to managing students project and		.098	4.37	.020	2.38	
	presentation through cloud computing Ability to distribute power point presentation too	2.04 o	.916	4.35	.631	2.31	
33	large for email on business subject to studen	ıt				• • •	
34	through Drop Box Ability to received work from students after schoo	1.94 1	.695	4.30	.714	2.36	
	hours through cloud application	2.06	.841	4.37	.664	2.31	
35	Ability to sharing and synchronizing notes between students through cloud based tool	n 2.08	.712	4.48	.603	2.40	
36	students through cloud based tool Ability to give assignment online and share with		./12	4.40	.005	2.40	
	students through Google Docs/Google Drive	2.28	.771	4.42	.628	2.14	
37	Ability to use Social networks group page e.g. facebook, Twitter, LinkedIn, WhatsApp(, e.t.c.) to schedule events that relate to lesson for students		.824	4.37	.620	2.26	
38	Ability to deliver/prepare lecture through YOU TUBE	2.14	.755	4.33	.641	2.19	
39	Ability to acquire some tutorials (watching video and obtain information) to supplement lesson fo		.778	4.35	.660	2.30	
40	students on business subject through YOU-TUBE Ability to send message to student through	h					
	networking sites like Myspace, Face Book, Twitte etc.	<sup>r</sup> 2.01	.791	4.51	.648	2.50	
	Aggregate	2.01	.146	4.45	.269	2.44	

*Note*. SD = standard deviation

The results of data presented in Table 1 shows the mean, standard deviation and the mean difference (gap) between the means of possessed and expected levels of utilization of TBIR for teaching. The mean responses of possessed level of utilization range from 1.58 to 2.62; while the mean responses on the expected level of utilization range from 4.30 to 4.58. The table also shows that the gap analysis (mean difference) range from 1.86 to 2.91, which indicates positive mean

differences and above zero. The aggregated mean responses for possessed (M = 2.01) and expected (M = 4.45) levels of utilization with positive gap analysis (M = 2.44) indicate the need for increase skills in the utilization of TBIR for teaching among business educators in colleges of education in Edo and Delta States. It can however be deduced that the extent to which the need for increase skills in the utilization reduces as the values of the TBIR Skills utilization gap analysis also decreases.

**Hypothesis 1**: There is no significant difference in the mean responses of business educators between possessed and expected levels of utilization of TBIR for teaching.

**Table 2:** Paired t-test on the Difference between Possessed and Expected Levels of Utilization of TBIR for Teaching

Utilization	Mean	Ν	SD	Df	Т	р	Decision
Possessed Level of Utilization	2.005	108	.146				
				107	-91.421	.000	Significant
Expected Level of Utilization	4.448	108	.269				-

*Note*. **SD** = standard deviation.

Table 2 reveals the aggregate mean responses of business educators on the possessed (M = 2.005) and expected (M = 4.448) levels of utilization of TBIR for teaching. The table shows significant difference (t = 91.421, df = 107, p < .001) between the possessed and expected levels of utilization of TBIR for teaching among business educators since the p-value is less than the alpha value of 0.05. The null hypothesis is therefore rejected. Hence, there is a significant difference in the mean responses of business educators between possessed and expected levels of utilization of TBIR for teaching.

**Table 3:** Mean and Standard Deviation on Level of Utilization of TBIR for Teaching based on Experience

S/N	Item Statement	Work Experience	Ν	Mean	SD	Remark
16	Ability to deliver lecture through the internet	heLess Experienced	38	1.68	.574	SU
		Experienced	70	1.64	.638	SU
17	Ability to create life web conferen	ce				SU
	(web- quest) and build internet into lesso	on Less Experienced	38	1.55	.686	30
		Experienced	70	1.60	.575	SU
18	Ability to create a video conferencing f	or				SU
	teaching through internet	Less Experienced	38	1.84	.638	30
		Experienced	70	1.87	.658	SU
19	Ability to post classroom news, activiti	es				SU
	and resources through internet	Less Experienced	38	1.76	.675	30
		Experienced	70	1.66	.611	SU
20	Ability to use internet photos, Videos, and	nd				
	websites to enhance printed materia	ıls				
	such textbooks	Less Experienced	38	1.76	.590	SU
		Experienced	70	1.69	.526	SU
21	Ability to use mobile internet devices access internet and obtain materials f					
	teaching business subject	Less Experienced	38	2.71	.611	SU
		-	Vol. 1, No. 2, DEC 2021 ISSN 2705-2559 E-ISSN 2705-2567			59

S/N	Item Statement	Work Experience	Ν	Mean		Remark
		Experienced	70	2.49	.654	SU
22	Ability to use Laptop Computer for					
	teaching	Less Experienced	38	1.74	.724	SU
		Experienced	70	1.64	.591	SU
23	Ability to use Digital Camera	Less Experienced	38	2.47	.762	SU
~ (		Experienced	70	2.46	.774	SU
24	Ability to deliver/prepare lecture throug		20	1.76	<b>60 A</b>	011
	I-Pod or MP3 Player	Less Experienced	38	1.76	.634	SU
25	Ability to exchange a mail address wit	Experienced	70	1.57	.554	SU
25	Ability to exchange e-mail address wit Colleagues and students on issues relatin					
	to business subject	Less Experienced	38	1.68	.739	SU
	to business subject	Experienced	58 70	1.08	.684	SU
26	Ability to communicate assignment t	-	70	1./1	.004	50
20	students through e-mail on issues relate					
	to business subject and add attachment t					
	buttress where necessary	Less Experienced	38	1.84	.754	SU
	Ş	Experienced	70	1.76	.647	SU
27	Ability to received completed/solve	d				
	assignment from students from time t					SU
	time through e-mail	Less Experienced	38	2.71	.611	
		Experienced	70	2.57	.650	SU
28	Ability to receive project topics from					
	students for modification and approva					~ ~ ~
	through e-mail	Less Experienced	38	1.74	.644	SU
•		Experienced	70	1.73	.635	SU
29	Ability to received and comments o		20	255	(0)	CII
	students' project through mail	Less Experienced	38 70	2.55 2.49	.686 .676	SU SU
30	Ability to communicate class activities t	Experienced	70	2.49	.070	30
50	students through the cloud based tools	Less Experienced	38	2.47	.603	SU
	students through the croud bused tools	Experienced	70	2.40	.623	
31	Ability to organize class for student	-	70	2.10	.025	50
01	through zoom application	Less Experienced	38	2.03	.788	SU
		Experienced	70	1.66	.611	SU
32	Ability to managing students project an	-				
	presentation through cloud computing	Less Experienced	38	1.97	.915	SU
		Experienced	70	2.07	.922	SU
33	Ability to distribute Power poir	nt				
	presentation too large for email o	n				
	business subject to student through Dro	-				
	Box	Less Experienced	38	2.00	.735	SU
		Experienced	70	1.91	.676	SU
34	Ability to received work from student					
	after school hours through clou		20	0.10	005	<u>a</u>
	application	Less Experienced	38	2.18	.896	<b>S</b> U
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E-ISSN 2705-2567

S/N	Item Statement	Work Experience		Mean		Remark
		Experienced	70	1.99	.807	SU
35	Ability to sharing and synchronizing note					
	between students through cloud based too	01				
		Less Experienced	38	2.21	.622	SU
		Experienced	70	2.01	.752	SU
36	Ability to give assignment online and					
	share with students through Googl					
	Docs/Google Drive	Less Experienced	38	2.21	.777	SU
		Experienced	70	2.31	.772	SU
37	Ability to use Social networks group pag					
	e.g., facebook, Twitter, LinkedIn	,				
	WhatsApp(, e.t.c.) to schedule events that					
	relate to lesson for students	Less Experienced	38	2.13	.875	SU
		Experienced	70	2.10	.801	SU
38	Ability to deliver/prepare lecture through					
	YOU-TUBE	Less Experienced	38	2.11	.764	SU
		Experienced	70	2.16	.754	SU
39	Ability to acquire some tutorial					
	(watching videos and obtain information	_				
	to supplement lesson for students of	n				
	business subject through YOU-TUBE		38	2.13	.777	SU
		Experienced	70	2.00	.780	SU
40	Ability to send message to studen	tLess Experienced				
	through networking sites like Myspace	-				
	Face Book, Twitter etc.	,	38	1.97	.716	SU
		Experienced		2.03	.834	SU
	Aggregato	Loss Exposioneed	38	2.05	.149	SU
	Aggregate	Less Experienced	38 70	2.05 1.98		SU SU
		Experienced	70	1.79	.139	30

*Note*. SD = standard deviation SU = Slightly Utilize

Table 3 reveals the mean responses of business educators on the level of utilization of TBIR for teaching based on experience. The table shows that the mean response of less experienced business educators ranged from 1.55 to 2.71, while the mean responses of experienced business educators range from 1.57 to 2.57. The aggregate mean responses are 2.05 and 1.98 for less experienced and experienced business educators respectively. This implies that less experienced business educators with a mean difference of 0.08 and standard deviation score are below one (1). It is to be understood that each mean score of less experienced and experiences to the responses on their utilization of TBIR for teaching business subject since the aggregate mean is lower than the criterion aggregate mean score of 3.00 set for high level of utilization of TBIR for teaching.

**Hypothesis 2**: There is no significant difference in the mean responses between less experience and Experience business educators on their levels of utilization of TBIR for teaching

Experienced

Table 4: The t-test on the Levels of Utilization of TBIR for Teaching based on Experience									
Variable	Work Experience	Ν	Mean	SD	df	t	Р	Decision	
Possessed Level	Less Experienced	38	2.050	.149					
					106	2.399	.018	Significant	

1.986

.139

70

*Note*. SD = standard deviation.

of Utilization

Data presented in Table 4 show the aggregate mean responses of Less Experienced (M = 2.050) and Experienced (M = 1.986) business educators on the levels of utilization of TBIR for teaching. The table showed no significant difference (t = 2.399, df = 106, p < .05) between the less experienced and Experienced business educators on the levels of utilization of TBIR for teaching since the p-value is less than the alpha value of 0.05. The null hypothesis is therefore rejected. Hence, there is a significant difference between the less experienced and the Experienced business educators in the mean responses on their levels of utilization of TBIR for teaching.

Hypothesis 3: There is no significant difference in the means responses among holders of First Degree, Master Degree, and Doctoral Degree Business educators in their use of TBIR for teaching.

Table 5: ANOVA Summary on the Level of utilization of TBIR for Teaching based on **Oualification** 

Sources of VarianceSum of Squares			Mean Se	quare F	Sig.	Decision
Between Groups	.076	2	.038	1.813	.168	Not Significant
Within Groups	2.195	105	.021			
Total	2.271	107				

The results on Table 5 show the ANOVA summary on the difference in the levels of utilization of TBIR for teaching based on the academic qualification (bachelor degree, master's degree, and doctoral degree) among business educators. The table shows no significant difference: F(2, 105)= 1.813, p> .05, in the level of utilization of TBIR among business educators based on their qualification since the p-value is greater than the alpha value of 0.05. The null hypothesis is, therefore, retained. Hence, there is no significant difference in the means responses between bachelor degree, master's degree, and doctoral degree Business educators' on their levels of utilization of TBIR for teaching

## **Discussion of Findings**

The result in Table 1 showed that twenty five items of TBIR for teaching used as a measure to determined their skills level, have the value of Skill utilization gap analysis ranging from 1.86 to 2.91, indicating that skills in utilization of TBIR are very highly needed by the Business educators since the skill utilization gap value is positive. The result of data analysis in Table 1 further revealed that there exist skills utilization gap between business educators current capabilities and the skills they needs in the utilization of TBIR for teaching. Corroborating this finding, the findings are in agreement with that of Akinnagbe and Baiyeri (2011) on training needs analysis of lecturers for information and communication technology (ICT) skills enhancement where the authors found that the lecturers were not skilled in slides preparation/presentation, spreadsheets preparation, and data analysis using computer software. Also, finding of the study is in agreement with that of Chukwuedo and Igbinedion (2014) which reported that TVE lecturers need capacity building in the use of ICT for instructional, research and administrative purpose In addition, the findings are in disparity with that of Ajie-Uche,

Efughi, and Ajaero (2018) where the authors reported that business education lecturers do not need capacity building in the five identified multimedia skills for effective teaching in tertiary institutions in south-south Nigeria.

The result of the corresponding hypothesis one statistically showed that there was significant difference in the mean responses of business educators between possessed and expected levels of utilization of TBIR for teaching. This implies that the business educators' possessed levels of utilization are different from expected levels of utilization of TBIR for teaching but the different was not significant.

The data generated as presented in Table 3 showed the mean responses of business educators on the level of utilization of TBIR for teaching based on experience. The Table showed that all the 25 items of the questionnaire used to measure this area showed slightly utilized for both less experienced and experienced respondents on utilization of TBIR for teaching. The aggregate mean of 2.05, and 1.98 was reported for less experienced and experienced business educators respectively. This signifies that Business educators slightly utilized TBIR for teaching and the less experienced business educators had higher mean response in the level of utilization of TBIR for teaching than the experienced business educators in Colleges of education in Edo and Delta States. The finding of this study is in disparity with that of Wolters and Daugherty (2007) who found that teachers with additional years of experience felt more confident in their ability to employ instructional and assessment practices that would benefit even the most difficult students. However, the finding of this study is in agreement with that of Ismail, (2015), who reported that teachers with the least amount of experience have grown up in a technology-rich society, and they must have likely used it while they were in school, whereas teachers with more than 25 years of experience would have had to make efforts to acquire technological adeptness.

Equally, the result of the corresponding hypothesis two statistically found that there is a significant difference between the less experienced and the experienced business educators in their mean responses on levels of utilization of TBIR for teaching. This implies that the levels of utilization of various TBIR for teaching amongst less experienced are different from those of experienced Business educators. This may be due to the fact that the younger business educators are more familiar with technology usage. The study proves that there is demographic differentiation in the utilization of TBIR in favour of less experienced business educators inn Edo and Delta States Colleges of education

The result of the hypothesis Three on Table 5 statistically showed that there was no significant difference in the means responses among holders of First Degree, Master Degree, and Doctoral Degree Business educators in their use of TBIR for teaching. This implies that their rate of utilization of TBIR for teaching are almost the same but with First Degree business educators have slightly higher mean response than Master Degree business educators, and Doctoral Degree business educators. The results revealed that the holders of bachelor degree, business educators had higher mean response on the use of TBIR for teaching than Master Degree business educators slightly utilized TBIR for teaching based on academic qualification with no difference existing among them. The finding of the study is in agreement with the finding of Onasanya, Shehu, Ogunlade and Adefuye (2011), which showed that the level of utilization of ICT resources of teachers examined was found to be very low. The findings of the study is in disparity with that of Attar

and Sweiss, (2010) which found that employees that possess a college or graduate degree qualification had high levels of e-business technology than those that did not possess any degree.

## Conclusion

Based on the findings of this study, the study concluded that there exist skill utilization gap between possessed and expected levels of utilization of various TBIR for teaching. The study further concluded that Business educators are not significantly differentiated on the utilization of TBIR for teaching based on work experience. but that there was demographic differentiation with regard to TBIR utilization between the less experienced and experienced business educators, resolved in favour of the less experienced business educators, also the study further revealed that there was no significant difference in the utilization of TBIR for teaching among business educators based on academic qualification.

### Recommendations

In view of the foregoing and the findings from this study, the following recommendations are considered necessary

- 1. Efforts should be made by institutions management to educate Business Educators on the use of TBIR to improve teaching and learning activities through Seminar, workshop and Conference
- 2. Business educators both less experienced and experienced should be provided opportunities to sharpen their skills in the use of TBIR in their teaching pedagogy.
- 3. The Experienced business educators should be given more training in the use of TBIR to upgrade their skills for pedagogical purposes

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