Journal of Information, Education, Science and Technology (JIEST) Vol. 1 No: 1 Extent of Avaliability Andutilization of Photographic Instructional Materials in Colleges of Education in Niger State.

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Abstract

The study investigated the extent of utilization of photographic instructional materials in the teaching and learning of ceramics art in tertiary institutions. Descriptive survey research design was adopted. Three research questions and one hypothesis were formulated. Federal College of Education Kontagora and College of Education Minna were used as case study. The total population of 29 was used. This was because of the smallness of the population. The instrument used for data collection was structured questionnaire designed and constructed by the researchers. Three experts validated the instrument. The reliability co-efficient of the instrument of 0.67 was established, using Pearson product moment correlation co-efficient. Data collected were analysed using percentage and mean. The result of the analyses showed that the application of ceramics photographic instructional materials in the two tertiary institutions were at their lowest ebb. The researchers recommended that the photographic instructional materials like, video, slide film, film strips, multimedia projection, films etc should be improvised and utilized by both the ceramic lecturers and students in the classroom. The institutions' management should endeavour to organize seminars and workshops for the lecturers and students on how to improvise ceramics photographic instructional materials for effective teaching and learning.

Introduction

When one talks of art, one may in fact be considering the entire process of creative experiences of a child or an adult. Art can be seen as a process as well as a product. It deals with the creative impulses in man that enables him to think, create, produce, perform, appreciate and pass value judgment. Art, a name given to all skillful activities is broadly divided into two names, visual art and non visual art. Visual art are those aspect of art whose products are visible, while non-visual art are those whose products cannot be seen with naked eyes. Visual art can be divided into two, namely; Fine Art and Applied Art. Fine art includes drawing, painting, sculpture and architecture. Applied art involves graphics, textiles, ceramics, photography and industrial design. The major thing that distinguishes art from other subjects in the curriculum is its in to develop divergent thinking rather to convergent thinking (Lowenfield and Britain cited in Anulobi, 2010).

Ceramics art involves the production of every ware made of clay material and making them a fine and finished, beautiful ultitarian pieces like pots, cups, jugs, plates, sanitary wares, bricks, tiles, electric insulators and laboratory facilities (Banjoko, 2000). Another name for ceramics art is pottery. Ceramics serves many functions and has many values to the society. Some of which according to Banjoko (2000) are summarized as follows:

As Universal language i.

Means of communication/illustration ii.

Means of identification-as in culture

Means of beautification/decoration

Means of livelihood, i.e. provides vocation/employment opportunities, career, foreign exchange.

Means of entertainment/aesthetic satisfaction.

Ceramics art is taught at professional level in tertiary institutions. Ceramics are found nor work in ceramic institutions, industries, private studios and in government establishments. They make pots, cups, plates, jugs floor tiles and other breakable wares like sockets, vases, switches and other industrial appliances with clay materials (Madu, 2010). Most ceramics wares and utensils used in our homes today are produced locally and these items are cheaper than the imported ones (Ojie, 2001). Different traditional methods/techniques such as coil, slab, press mold and pinch are employed to achieve the desired objectives. Different tools like fingers, spatulas, scraper, saw blade, etc are used for good finishing. Pottery making can also involve mechanical devices such as wheel throwing or potter's wheel, pug mill for processing clay, kiln for firing green wares and others like water glazes, oxides among others (Madu, 2010). The question asked is could photographic materials be used as supplement or alternative to the traditional methods of teaching and learning ceramics art? The answer is yes.

Photography is the art of creating image with light by focusing and shooting such image through the lens of a camera and turning such image into picture after undergoing some processes. examples of photographic materials include still pictures and motion pictures (Video). Photographic materials (still and motion pictures) refer to a broad range of resources which can be used to facilitate effective and efficient classroom communication. Such communication materials include Information and Communication Technologies (ICTs) such as Video and still pictures; others include films, slide films, filmstrips, television and projections. Communication technologies communicate information between the various kinds of technologies such as television, video, and computers among others. Still picture is a photograph taken and printed on single fixed frame. It is achieved through the use of still camera. Motion pictures are achieved through the use of a video camera or shooting camera, which results to motion or animated picture. Banjoko (2000) states that sounds coming from such pictures and the surroundings are equally recorded.

(Audio-Visual). According to Dike (1999), motion pictures refer generally to those media that have the attribute of presenting images. The term is often used for films but also includes at least for our purpose, television and video because they also present moving images that appeal to both the audio and visual senses. Slide refers to a frame of photographic transparencies bound by card mounts and designed for use with a slide project for or slide viewer. The "2 by 2" slides are most commonly used. Slides may be commercially or locally produced. The teacher or student can make his own slides by taking pictures of the required concepts using the 35mm film camera. The exposed film is processed, cut and mounted on frames. Filmstrip is a roll of transparent film usually 16mm or 35mm in size, containing images designed to be viewed frame by frame with a filmstrip projector. Like slides, filmstrips can be commercially made or locally produced.

These days, filmstrips are being accompanied with recorder sound tracks or audio cassettes of narration. Overhead projectors are used to project transparencies. Transparencies may be composed of photographic type film for use in the classroom.





Good performance can be achieved through effective utilization of photographic management of the control of the instructional materials in the classroom teaching and learning of ceramics. Eze (2011)6/4 stressed that teachers should see themselves as people on voyage and therefore always ask the following questions; thus; when the indicated a redistance for the modern less

i. Where am I going? (Content/Topic)

ii. How will I get there? (Method/Technique)

iii. Why am I embarking on this voyage? (Objectives)

What means will I use to get there fast? (Instructional Materials) iv.

How will I know that I have arrived at my desired destination and V. achieved my purpose (Evaluation).

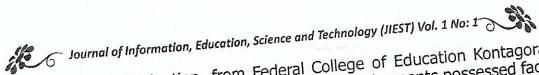
Learning habits and culture among our students in schools is very poor (Etim, 2010). Obibaku (2011) submitted that many education researcher have argued that the causes of the decline in the quality of education in Nigeria include poor funding, poor teacher quality and motivation, and poor instructional facilities. Central to the above ugly situation is the misappropriation of funds allocated to education at various levels of government and the consequent non-payment of teachers' salaries, especially in state government owned institutions. It should be noted that education is the most effective antidote to poverty, and poverty itself is a common constraint to accessing education (Obibuaku, 2011). The trends according to Madu (2010) have shown that the quality of ceramics art education is declining and also is the number of students offering the course. The much talked about poor quality in education might not be unconnected with the poor traditional teaching methods of teachers and poor habits exhibited by students for learning. These traditional methods do not prepare our students very well for this information age and globalization. The implication of the above situation is that in the future, we are likely to have no skilled ceramists in the labour force. Could there be total lack of awareness and literacy in the use of photographic instructional materials as veritable tools for instruction? Could the use of motion and still pictures in teaching of ceramics art encourage students to study ceramics? It is the wish of the researchers to ascertain the extent to which these materials are utilized, effective use of these photographic materials in the teaching and learning of ceramics art in the institutions.

Purpose of the study

- To find out the available photographic instructional materials in the 1. institutions.
- To find out the extent to which these photographic materials are utilized in 2. the classroom.
- To find out the factors militating against the utilization of photographic 3. instructional materials in the classroom.

Methodology

The research design employed is descriptive survey study of two tertiary institutions. The study was purposively out in Federal College of Education, Kontagora and College of Education Minna. These are the only two tertiary institutions in the state that offer ceramics art in their curriculum. The population of the study comprised all the ceramics art in 200, and 300 levels of the two institutions. There are 2 ceramics lecturers and 15 students Federal College of Education Kontagora, 2 lecturers and 10 students from College of EducationMinna, given a total population of 29. The whole population was used for the study, because they are very few. Instrument used for the study were Ceramics Students Questionnaire (CSO) and Ceramics Teachers Questionnaire (CTQ), constructed by the researchers. The validation of the Instruments were established by three expert lecturers. One is an educational technologist, while the rest two are experts



in Measurement and Evaluation, from Federal College of Education Kontagora and National Examination Council Minna respectively. The instruments possessed face and content validity. The instruments were subjected to a test-retest technique. A calculation of 0.67 correlation coefficient index, using Pearson product moment correlation coefficient statistical tool was established. Data collected were analysed using percentage and mean.

Lecturer's response on the available photographic instructional materials used in the teaching of ceramics art in the classroom. Table 1a:

apie	materials used in th	Available	%	Not	º/o
5/N	Iţem	Available	75	available	25
,	La (Ctill Picture)	3		1	25
-	Photographs (Still Picture)	3	75	4	100
)	Posters		-	3	75
3	Video (motion pictures)	1	.25	3	
4	Computers/PowerPoint				100
•	Presentation	_	-	4	100
5	Slide films		-	4	100
	Film strips		-	4	100
6	Overhead projector	**************************************	-	. 4	100
/	Television		_	4	
8			25	3	75
9	Films	1	23	ng of ceramics	art while the
10	Computer	a syzilable fo	r teachir	ng of ceramics	and vinner inctio

In the table, only item 1 and 2 were available for teaching of ceramics art while the rest items were not available. This showed that the majority of photographic instructional materials were not used in teaching and learning ceramics art in the two institutions.

FCE Kontagora students response on the available photographic instructional materials in learning ceramics art. Table 1b:

able	instructional materi	Available	%		%
5/N	Item (Still Bighure)	8	53.33	available 7	46.67 53.33
ĺ	Photographs (Still Picture)	7	46.67	8	60
2	Posters	6	40	9 15	100
2	Video (motion pictures)			12	
4	Computers/PowerPoint			15	100
	Presentation	- Mr. 10	-	15	100
5	Slide films			15	100
6	Film strips	-		15	100
7	Overhead projector	•	-	15	100
8	Television		- 40	9	60
9	Films	6	40	J. Commission of the Commissio	
10	Computer				





College of Education Minna students response on the available photographic instructional materials for learning ceramics art in the classroom

N	Item	Available	%	Not available	%
	Photographs (Still Picture)	3	75	1	25
	Posters	3	75	1	25
	Video (motion pictures)		-	4	100
	Computers/PowerPoint	1	25	3	75
	Presentation Slide films			4	100
	Film strips		-	4	100
	Overhead projector		4	4	100
	Television		-	4	100
	Films		-	4	100
)	Computer	1	25	3	75

the above table, only items 1,2,and 4 were available for use, while the rest items are available. This has shown that the majority of the photographic instructional aterials were not widely used for learning of ceramics art.

a_le 2a: Lecturers response on how regularly lecturers in both institutions utilize photographic instructional materials in the classroom

S/N	Item	Always	Not always	Sparingly	Not at all	\bar{X}
1	Photographs (Still picture)	-	3	1	-	2.5
7	Posters		3	1	•	2.5
2	Video (motion pictures)			-	4	1
4	Computers/PowerPoint		1	3	vi.	2.25
5	Presentation Slide films		-		4	1
6	Film strips		-	-	4	1
7	Overhead projector		•	. -)17772	4	1
8	Television	_			4	1
837.10				-	4	1
9 10	Films Computer	-	1	3	•	2.25

In the table above, response of teachers from FCE Kontagora and College of Education Minna showed a mean score of 1.53. This showed that the use of photographic instructional materials in the two institutions were at their lowest ebb. However, only the materials on item 1 and 2 were utilized in the two institutions.





FCE Kontagora student's response on how regularly they learn with photographic instructional materials in the classroom Table 2b:

Zana da ka	The second secon	July Cala	Always	Not always	Sparingly	all	
IN	Item			GIVACITO		5	2.6
	The state of the s	manuscrame of the second	4	6	-	7	1.73
CONTRACTOR S	Photographs (Still	picture)	45	3	5	15	1
)	Docters		_	-	-	7	1.80
2	video (motion pic	tures)	_	4	4	,	
1	Computers/Power	Point				15	1
Y	Presentation			es pr 	-	15	1
ς.	Slide films				-	15	1
5 G	Film strips			n#	-	12	1
ワフ	Overhead project	tor		_	-	15	1
0	Television			-	•	10	2.06
8	Films			6	A	5	1.6
10	Computer						- La C

In the table above, only item one was utilized while the remaining nine items were not utilized. This means that photographic instructional materials were not regularly used in their classroom. The mean score was 1.42.

College of Education Minna student's response on how regularly they learn with photographic instructional materials in ceramics Table 2c:

	Class A second	Always		Sparingly	Not at	X
S/N	Item	THE PRINCIPLE CONTROL	always	2	2	2.7
THE PERSON NAMED AND POST OF	Photographs (Still picture)	3	2	3	4	2.5
1	Photographs (San Press)	1	2	Λ	6	1.4
2	Posters	-		-T	2	2.4
3	Video (motion pictures)	2	2	4		
Δ	Computers/PowerPoint				2	1.9
-1	Presentation	_	1	6	5	1
5	Slide films	•	-	4	g g	1.3
6	Film strips		1	1	1	2
7	Overhead projector	_	2	2	٦ و	1.2
8	Television		us.	2	1	1.2
9	Films		1	5	- P	1.68
10	Computer					
To	[3]			tudent in le	arning CE	eramics a

In the table above, only items 1 an3 are often used by student in learning ceramics art, whereas, the rest 8 items were either sparingly or not used at all. The mean score of 1.68 calculated.





Lecturers' response on the factors militating against the utilization of photographic instructional materials in the Table 3a: classroom

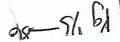
	classroom					
		CA	A	D	SD	X
S/N	Item	SA	1		2	2.25
1	Lack of skills in the teachers to produce photographic materials	1				
2	for ceramic instruction	-	2	-	2	2
2	ICT ceramics innovative materials Lack of adequate technologies for	2	1	1	-	3
3	the production of the photographic materials Lack of qualified ICT compliant	_	2	2		2.5
4	lacturers	2	2			3.5
5	Lack of Government motivation	3	1	-	-	3.75
6	Lack of support facilities	2	2	-	3. -	3.5
7	Lack of nower SUDDIV	(100000)	1	1		3
8	Lack of seminars workshops for	2	1			
	the lecturers and students Lack of interest by students on	-	1	1	2	1.75
9	the ceramic art					2.53

In the table above, responses of lecturers from both institutions showed a mean score of 2.53. This showed that the factors on items 3,4,5,6,7 and 8, except items 1,2 and 9 affect effective use of photographic materials in the classroom in the two institutions.

FCE Kontagora Students response on the factors militating against effective use of photographic instructional materials in Table 3b: learning ceramics

	learning ceramics			D	SD	Ż
		SA	A	A STATE OF THE PARTY OF THE PAR	2	2.6
S/N_	Item	5	4	4	2	
1	Ignorance of the teachers on the ICT ceramics innovative materials Lack of skills in the teachers to	2	5	2	6	2.2
2	for ceramic instruction Lack of adequate technologies for	11	2	1	1	3.53
5	the production of the photographic materials Lack of qualified ICT compliant	8	2	2	3	3.6
4	la atturore	6	3	1	5	3.7 3.3
5	Lack of Government motivation	5	2	4	4	2.2 2.3
.6	Lack of support facilities		2	4	4	2.53
7	Lack of nower SUDDIV	5 5	4	4	2	2.6
8	Lack of power sarry Lack of seminars workshops for the lecturers and students	_	2	7	6	1.73
9	Lack of interest by students on the ceramic art				zation of p	2.6

In the table above, item 2 and 9 do not militate against the utilization of photographic instructional material in the class. While, the rest 7 items posed problems in learning Moon score of 2.65 was calculated.







College of Education Minna students response on the factors militating against effective use of photographic instrument to Table 3c:

Table	militating against effective use or	CA	A	D	SD	X
		SA	3	2	2	2./
SIN	Item Ignorance of the teachers on the ICT ceramics	ر			3	2.2
1	innovative materials	1	3	3	J	
2	Lack of adequate technologies materials		2	2	2	2.7
2	production of the photographiant lecturers	3	ے ع	1	2	2.5
3	Lack of qualified ICT compliant lecturers	3	3	3	1	2.8 2.8
4	Lack of Government mount	3	4	1	2	2.5
5	Lack of support facilities	3	3	1	2	2.56
6 7	Lack of power supply Lack of power supply Lack of power supply	2	4	2		
8	Lack of seminars Workshops		2	4	4	2.5
	and students Lack of interest by students on the ceramic a	rt -	_	The state of the s		2.51
9	Lack of interest of					n studving

In the above, the mean score was 2.51. Items 2 and 9 posed no problem in studying ceramics art. Whereas, item 1,3 to 8 were obstacles in learning the course in the class. However these factors were responsible for the studying of ceramics art at its lowest

Hypothesis: There is no significant difference between the factors militating against FCE Kontagora students effective learning of ceramics art with photographic Instructional materials and AIFCE students (p<0.05).

FCE Kont Instruction	nal materi	ials and AIF	CE student	T-cal	T.Value	e DF	Decision
Group	N 15	X 4,75	2.53	0.020	1.71	23	Accepted
IMSU AIFCE_	10	4.81	2,47	0.029	less than	the table	value of 1.71 at

From the above result t-calculated value of 0.029 is less than the table value of 1.71 at significance level of 0.05. Therefore the null hypothesis was accepted that no significance difference existed between the factors that militate against the use of photographic instructional material in teaching and learning of ceramics art in the two tertiary institutions in the state.

The result of the study reveals that photographic instructional materials are not utilized in the classroom in the two institutions, except still pictures. This is reflected in table I as a result of non-availability of other photographic materials such as video, film, television, slide film, overhead projectors that are not available in the institutions. This is contrary to Dike (1999) that videos present moving images that appeal to both the audio and visual sense.

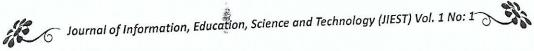
With the availability and integration of photographic instructional materials, students to coramics information and communicate with one another, even without the teacher. The use of photographic instructional materials can promote the interest and motivate learners to develop positive attitude towards ceramics art education. Vernon in Onyejemezi (1996) confirmed that when there is direct relationship between pictures and facts were more clearly remembered; pictures stimulate and help further studies, and also help children to take active interest in the topic presented.

Table 2 above revealed that the use of photographic materials (motion pictures) is at its lowest ebb. This is contrary to the view that the use of photographic materials in the teaching/learning of ceramics art will maximize the employment of the senses of seeing and hearing that will supplement the traditional approach of teaching/learning ceramics in the classroom. Teachers and students should be encouraged to use this indispensable source of knowledge and skills that can enhance learning competencies among students and lecturers.

It was also revealed that many factors such as lack of adequate technologies for the production of photographic instructional materials, lack off seminars and workshops for lecturers and students on the production and utilization of photographic instructional materials and lack of qualified hands in the photographic materials production among others. This was revealed in tables 3a, b and c mean scores of 2.53, 2.65 and 2.51, respectively. This is in agreement with the views of Obibuaku (2011) that the causes of the decline in the quality of education in Nigeria include poor funding, poor teacher quality and motivation, poor instructional facilities, and irregular payment of teachers salaries, especially in the state government owned institutions. Teaching and learning of ceramics art would therefore become more efficient and more productive when ICT photographic materials were utilized as supplement to traditional teaching and learning of ceramics art education in tertiary institutions in the state. This statement was supported by the study carried out by Anulobi (2009) that video compact disc can be used as a supplement and an alternative to the traditional teaching and learning of fine art in the junior secondary schools in Owerri.

Conclusion

Ceramics art involves the production of wares made of clay materials which include pots, cups, plates, jugs, floortiles, vases and other breakable wares. Another name for ceramics is pottery. It is taught at professional level in tertiary institutions, industries, private studios and in government establishment. Photographic materials include video, still pictures, slide film, film, television, computer projections, etc.Recognizing the potentials of photographic materials in the ceramics art education, it becomes obvious that tertiary institutions in Imo State and beyond have not been able to benefit much from the technologies, because of the non-availability of adequate facilities. The teachers need to posses necessary skills that will enable them to produce and to integrate the photographic materials into their classroom practices to improve the quality of teaching and learning, and properly, prepare the youths for job opportunities and other life challenges, thereabout. Therefore, the deficiency in the leaning of ceramics can be remedied by the application of photographic materials in the classroom. Finally, photographic instructional materials should be used as supplement/alternative to the study of ceramics art in our tertiary institutions, the researchers concluded.



Recommendation

The following recommendations were made by the researchers

To improve the quality of education, the stakeholders must improve the conditions for the two key people in the classroom-the teacher and the student in the tertiary institutions.

Leakages in the system that consume education resources such as corruption must be addressed to ensure that appropriated funding

actually gets to the target student and teacher.

Lecturers should receive better and regular pay, as motivation

They should be provided with periodic professional training through workshops, and seminars to upgrade and enhance their skills.

Lecturers should be motivated and made proud, to bring the best out of

the students under their care.

Education in Imo State and indeed in the whole of Nigeria should be globalised to enable our students to compete with those from other nations of the world through photographic instructional materials.

Existing infrastructural facilities should be refurbished and more ceramics

iecturers should be employed without delay.

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