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ARCHITECTURAL DESIGN AS A PREDICTOR OF PATRONAGE OF RECREATIONAL CENTRES IN KADUNA STATE, NIGERIA

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Abstract:

The study assesses architectural design as a predictor of patronage of recreational centres in Kaduna State, Nigeria. One research questions were answered, and one hypothesis were formulated to guide this study. A descriptive survey research design was used for this study. The population for the study comprised all staff of recreational centres in Kaduna State, with a population of 3,249. Multistage sampling technique was used to select the sample for the study. Researcher developed questionnaire was used as the instrument for data collection and it was validated by 3 experts from the Department of Physical and Health Education, Faculty of Education, Bayero University, Kano. A pilot study was conducted and a reliability index of 0.87 was obtained. Out of 441 copies of questionnaire administered by the researcher and his assistants, 432 copies were duly completed, returned and analyzed. Frequency count and percentage were used to describe the demographic information of the respondents while Chi-square (χ 2) statistics was used to test all the formulated hypotheses at the 0.05 alpha level of significant. The findings of this study revealed that power supply significantly influence the patronage

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of recreational centres in Kaduna state c2 = 140.08, df = 1, P < 0.05. It was recommended among others, that authorities such as ministry of tourism and culture should set up a board each to plan, execute and supervise the existing buildings in the recreational centres.

Keywords: architectural design; predictor and patronage of recreational centres

1. Introduction

The design, construction and maintenance of buildings and infrastructure are essential for economic development and sustainable growth as well as for the quality of life of the people, the answers to many of the challenges facing the environment depend on the construction sector (Barford, 2002). The basic frame work of fundamental natural processes surrounding man's activities in the environment as established by Fadamiro (1998), include; climate, vegetation, wind, flood, ice melting, volcanic action and earth movement; while conservation considerations derived from the impact of man's activities on nature are needed for balance and equilibrium amongst the identified environmental elements.

In recent years, Nigerian Architecture is characterized by the post-modern buildings of the 1990's and a sprawling new design concept and engrossed with new building materials mainly imported from China. Tofa (2011) reported that most beautiful circular shapes apparent in Hausa Architecture with its domed roofs, thick monolithic walls and decorative plasters have been replaced by a rectangular concrete prototype with imported roman column replicas. It is insignificantly to structural function rather possessing decorative elements adorning the entrance of the buildings. In spite of the significance benefits associated with traditional architecture in its possession of fairly adaptation to the environment, little efforts have been initiated to explore the characteristics (Ade-Adedokun, 2014).

According to Dabiri (2006), what constitutes recreation is not as easy to specify as it might seem. Recreation can be generally conceived as the consumption of leisure or leisure facilities for the purpose of refreshing oneself. A distinction can readily be made between active recreation involving participation in sports and games and passive recreation in which the individual is essentially a spectator.

Akintola (2003) stated that, use of land for recreational purposes involves, for the most part outdoor activities on sites consciously developed and equipped with facilities that permit both active and passive recreational involvement. Recreational centres can be conceptualized as those centres, spots or sites on which recreation activities can be carried out whether natural or artificial spaces of various forms.

Physical factors classified as land and water bodies have been particularly important determinants of pattern of recreational activities. Land (space) is needed for

almost all kinds of recreational activities. Similarly, recreational activities such as swimming, sailing could take place only in the existence of water bodies (Burton, 2005).

2. Hypothesis

 \mathbf{H}_{01} : Architecturally designed buildings will not significantly influence the patronage of recreational centres in Kaduna state.

3. Methodology

A descriptive survey research design was used for this study. According to Nwana (2005), descriptive survey design focuses on the people and their beliefs, opinions, perception and behaviours. Sunusi (2008) stated that descriptive survey design is a kind of survey design in which a person is able to find out the feelings of others about something. He added that descriptive survey design is a systematic description of event in a very factual and accurate manner.

The population of the study comprised all the staff in the recreational centres in Kaduna state, with the population of 3,249 (Source: Kaduna State Ministry of Culture and Tourism Report, 2016).

Four hundred and forty-one (441) respondents were sampled for this study. Krejcie and Morgan (1970) suggested that for any population of the study up to 3000, the sample should not be less than 341. However, the sample of 441 is adequate to represent a population of about 3,249. The researcher used a multistage sampling procedure to select the sample for the study.

According to Njodi and Bwala (2004), multistage sampling is a procedure carried out in phases and usually involves more than one sampling method. They further stated that in a very large and diverse study population, sampling may be done in two or more stages. Hence, the stages for sample selection in this study were as follows:

- Stage 1: Stratified sampling technique was used to stratify Kaduna state into three (3) stratum as in the Senatorial zones, Kaduna Central zone strata one, Kaduna Northern zone strata two, and Kaduna Southern zone strata three.
- Stage 2: Simple random sampling technique was used to select six (6) recreational centres from the 3 senatorial zones of Kaduna State.
- Stage 3: Using proportionate sampling technique, fifty percent (50%) of the total population of staff in each recreational centre in Kaduna state was used as the respondents (Sample) as presented in the Table 1 below:

Table 1: Distribution of population and sample used for the study by senatorial zone and recreational centres

Three Senatorial	Recreational centres	Population	Sample (50%)
Zone of Kaduna State		_	<u>-</u>
Central Zone	Kufena Hills	49	25
	Queen Amina of Zaria Kindom	33	17
	Zaria polo club	52	26
	Zaria golf club	66	33
	Fifth chukkar polo resort	46	23
	Zaria township stadium	57	29
Northern Zone	Kofar gamji amusement park	41	21
	Pixie-Dixie amusement park	29	15
	Kaduna polo club	38	19
	Kaduna golf club	61	31
	Kaduna township stadium	47	24
	Ahmadu Bello stadium	52	26
Southern Zone	The ancient nok culture	39	20
	Naval armament club	63	32
	Water hills park	47	24
	Treasure of the universe	68	34
	Matsirga water halls	35	18
	Kagoro hills	48	24
Total			441

• Stage 4: Simple random sampling technique was used to administer the questionnaire to the respondents in each of the recreational centre in Kaduna state.

The instrument for data collection in this study was a researcher's developed questionnaire. The questionnaire consists of two (2) sections A and B. Section "A" contained the information on the demographic characteristics of the respondents (Gender, age range and highest educational qualification) while Section "B" contained information on the influence of power supply on the patronage of recreational centers. The variables are four (4), therefore, statements were formulated on each variable. The questionnaire was prepared on four (4) points Likert scale and the rating score was as follows: Strongly Agreed (SA) 4 points, Agreed (A) 3 points, Disagreed (D) 2 points and Strongly Disagreed (SD) 1 point.

In order to establish the content validity of the questionnaire, the questionnaire was subjected to vetting by the 3 experts in the Department of Physical and Health Education, Bayero University, Kano. Their observations and corrections were incorporated in the final draft of the questionnaire to the satisfaction of the supervisor before administration for a pilot study.

To ascertain the reliability of the instrument, a pilot study was conducted using twenty (20) staff of Sani Abacha Stadium, and that of Gidan Makama, Kano State. A split-half reliability test was used to determine the reliability of the research instrument. The administered and filled questionnaire was pooled and split out into odd and even number items. The scores obtained from odd and even number items collected was

subjected to a statistical test using Spearman-Brown Prophecy Formula, and the reliability index of 0.86 was obtained which confirmed the questionnaire as reliable for usage.

An introductory letter was obtained from the Head of Department, Physical and Health Education Department, Bayero University, Kano, which was taken to the authorities of the sampled recreational centers in Kaduna State, to seek permission to conduct the study. After permission was granted, the researcher employed the services of six (6) research assistants who helped in administering and retrieving the questionnaire within a week. Four hundred and forty-one (441) copies of questionnaires were administered and four hundred and thirty two (432) copies were duly completed, returned and analyzed.

Simple frequency count and percentage was used to organize and describe the demographic information of the respondents while Chi-square (χ^2) statistic was used to test the formulated hypotheses at 0.05 level of significance. On the course of analysis, all the responses (strongly agree, agree, strongly disagree and disagree) were merged to agree and disagree.

4. Results

Out of four hundred and forty-one (441) copies of questionnaires administered, four hundred and thirty two (432) were duly completed, returned, analyzed and presented in the tables below:

Table 2: Demographic Information of the Respondents

Variables	Frequency	Percentage (%)
Gender:		
Male	304	70.4
Female	128	29.6
Total	432	100
Age:		
18-29 years	259	60.0
30-39 years	122	28.2
40 years and above	51	11.8
Total	432	100
Highest Educational Qualification:		
University Degree/HND	35	8.1
NCE/OND	252	58.3
SSCE/Grade II/WASCE	145	33.6
Total	432	100

Table 4.2.1 shows that 304 (70.4 %) of the respondents were male and 128 (29.6%) female. Based on the ages of the respondents, 259 (60.0%) were between the ages of 18-29 years, 122 (28.2%) were between the ages of 30-39 years old, while 51 (11.8%) were 40 years and above. Regarding the highest educational qualifications of the respondents, 35 (8.1%)

were University Degree/HND holders, 252 (58.3%) were NCE/OND holders while 145 (33.6%) were SSCE/Grade II/WASCE holders.

4.1 Hypotheses Testing

H01: Architecturally designed buildings will not significantly influence the patronage of recreational centres in Kaduna state.

Table 3: χ^2 summary on the influence of architecturally designed buildings on the patronage of recreational centres

Variables	Observe	Expected	df	X ²	P-value
Agreed	339	216.0			
-			1	140.08	0.001
Disagreed	93	216.0			

 $[\]chi^2 = 140.08$, df = 1, P < 0.05.

Table 3 revealed that 339 of the respondents agreed that provision of architecturally designed buildings influence the patronage of recreational centres while 93 of the respondents disagreed. From the table, it is indicated that the number of respondents that agreed are more than those disagreed. χ^2 statistical computation indicated the χ^2 value of 140.08 at df = 1, P<0.05. The null hypothesis tested is therefore rejected on the basis that architecturally designed buildings influence the patronage of recreational centres in Kaduna state.

5. Discussion

The finding of this study indicates that architecturally designed buildings influence the patronage of recreational centres in Kaduna State. This finding is in line with that of Schleien, Fahnstock, Green and Rynders (2009) who found that presence of good buildings encourages many peoples' participation in recreational activities and seeks to ensure appropriate opportunities to meet the needs of the people. However, Government acknowledges that recreation stems from a basic human need for activities which are essential to the mental and physical well-being of the individual and the community as a whole. Also, recreation is accepted as an essential activity for which architecturally designed building attracts people to participate.

6. Conclusion

Architecturally designed building contributes to the patronage of recreational centres in Kaduna state.

6.1 Recommendations

Based on the various facts that emerged from this study, the following recommendations are made:

 Authorities such as ministry of tourism and culture should set up a board each to plan, execute and supervise the existing buildings in the recreational centres. This will improve the community members' social and psychological value and enhance the patronage of recreational centres.

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