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UTILIZATION OF CLOSED-CIRCUIT TELEVISION SYSTEM IN THE MANAGEMENT OF UNIVERSITIES IN CROSS RIVER STATE

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ABSTRACT

This study investigated Utilization of Closed-circuit Television System in the Management of Universities in Cross River State. Two purposes, two research questions and two null hypotheses guided the study. Descriptive research design was adopted for the study with the population of six hundred and seventy-six (676) senior management staff of Universities in Cross River State. This includes three hundred and forty-one (341) senior administrative staff of University of Calabar (UNICAL) and three hundred and thirty-five (335) of Cross River State University of Technology. The census population were used, there was no sampling, because the population was small and manageable. The research instrument used for data collection was a structured questionnaire tagged "Utilization of Closed-Circuit Television System in the Management of Universities Questionnaire" (UCCTSMUQ). The instrument was validated by three experts, two of whom were from the Department of Educational Foundations (Administration and Planning) and one from Measurement and Evaluation option of Science Education Department, all in Ebonyi State University, Abakaliki. The overall reliability coefficient yielded 0.96 using Cronbach Alpha method. Data collected were analyzed using mean and standard deviation (SD), while t-test statistics was used to test the null hypotheses at 0.05 level of significance. The results revealed that: utilization of Closed-Circuit Television by school management in the conduct of semester examination in universities and utilization of Closed-Circuit Television System in the management of institutional facilities in universities were not properly managed to yield the expected result. Based on the findings, the study recommended that: School management should educate students and staff on the benefits of CCTV surveillance during examinations.

Keywords: Utilization, Closed-circuit Television System, Management, Universities

Introduction

The university education is an educational institution where high level manpower is trained and developed for socio-economic and political growth of the nation. It is therefore paramount to adopt leadership and management principles and practices within the system that would engender maximum results (Akeke & Atah, 2022). Effective institutional leadership brings

about best practices that ensure social stability and productivity in the tertiary education. It is in this view, that Emeka (2018) emphasized that effective management of university education play a lot of roles in achieving academic excellence, research results dissemination and acquisition of universal knowledge, values, functional, technical and scientific skills and competencies that are critical to global growth and development. Thus, tertiary educational institutions are charged with the responsibilities of searching for optimal approaches in management in order to guarantee quality service delivery in schools. One of these approaches could be the use of Closed-Circuit Television Cameras in management of universities especially in this era of insecurity in the school system. School management is concerned with planning and allocation of resources (human and material) (Nwankwo, 2019). The degree of efficiency and success in an institution depends on the adequacy and management of resources available in schools.

Management is seen as an activity or process concerned with the means of carrying out stated objectives (Akpa, 2017). Management is the central activity that must be performed so that there will be order, peace, harmony and progress in any establishment (Egwu 2019). Some school managers can do well with minimum resources, others may not, even when they have abundant resources. The difference between both lies in the knowledge and use of the available resources. Therefore, administrators, should be aware of various available surveillance resources and their utilization in the management of universities.

Thus, the major thrust of this study is to examine the utilization of CCTV systems in management of universities in the era of insecurity, examination malpractices, financial resources insufficiency, poor instruction supervision, management of human resources (Emeka, 2018). Closed-Circuit Television (CCTV) systems refer to the use of integrated video cams to convey signals to a control room with a series of interconnected monitors. It is broadly use today in most organizations, business settings, homes, institutions in both private and public establishments, mainly for security surveillance (Alabi, 2018; Kurdi, 2022). This study investigated the extent of utilization of closed-circuit television system in the management of universities based on: conducting of semester examination and maintenance of institutional facilities.

Examination is the most common tool around which the entire system of education revolves, it is the instrument used to determine the extent all aspects of management align with the objective of organization. Suleman, Gul, Ambrin and Kamran (2019), defined examination as the process of assessing understanding, knowledge and academic ability of an

individual within a given period. Examinations are arranged to evaluate the academic achievement of students and to know whether they have achieved a standard of academic learning and knowledge. One of the factors that may affect the reliability of examination scores is examination malpractice (Akpa, 2017). Examination malpractice is an offence committed by any candidate that renders the assessment process useless and unreliable. Examination malpractice is defined as any deliberate act of wrongdoing, contrary to the rules of examinations designed with the aim of given candidate an undue advantage. Examination malpractice also known as cheating and on illegal action that students take during their examinations to try to make good grades by cutting corners (Emeka, 2018). Examination malpractice is an act or irregular manner of testing candidates which contravenes the rules and conventions guiding the conduct of examinations. Examination malpractice has done a lot of harm to students since many of them have neglected their books with the hope of performing the magic they are used to in every examination.

It is important to note that in achieving the organization goals, CCTV plays a crucial role in the area of protecting school facilities because without effective management of school facilities, the institutional goals may be difficult to actualized. The extent to which CCTV is utilized in the management of institutional facilities in tertiary institutions vary. In general, CCTV systems are commonly used to enhance security measures and monitor activities within campuses in which school facilities are managed.

School facilities is defined by Isaac and Ajayi (2010) as a consciously designed and controlled environment with the sole aim of promoting teaching and learning activities within the school. According to them, it putting together of facilities to protect the physical well-being of individuals associated with a school. This implies that the term "school facilities "is more than the school building and the piece of land on which its situated (Egbeb, Maina & Musa, 2022). The aspect of maintenance of these school plants are totally essential in the management of schools. School facilities in these contexts are basically school plants which aid for effective teaching and learning. These facilities include are classroom, laboratories, sport facilities, libraries and ICT facilities mainly for the promotion of effective learning.

School management board as the custodian of the school facilities ensures the proper utilization and maintenance of school facilities in order to prevent loss of time, money and space. The management has the

AJEMATES
African Journal of Educational Management, Teaching and Entrepreneurship Studies
VOL.14 (2), January-April, 2025 https://ajemates.org

responsibility of ensuring that school plants are well protected against fire outbreak, pest, as well as thieves and kept in functioning condition through the utilization of CCTV to monitor the facilities. In the view of Olagboye (2022), school management are to mobilize devices and motivate their staff and students to imbibe and internalize the maintenance culture. They added that school administrators, through close supervision of the staff, student and members of the community, must ensure that; equipment and facilities to be serviced and overhauled are actually serviced, that school properties should neither be misused nor converted into private property and ensure that no component of the school facilities must be illegally commercialized by individuals, to achieve the this result, utilization of Closed Circuit Television make things easier to ascertain the situation of things. Given that, school facilities are fundamental in students' academic performance, thus, this study investigated how tertiary utilizes CCTV in the management of school facilities as well as corrupt practices in universities.

Another perception here is that the administrative duties become easier and cost effective (administration made easy) for the administrator and the institution. Since events that would cause serious damages and consequent spending averted and proactively arrested (Emeka, 2018). Life-threatening incidence and vandalism of equipment possibly preventable, paper work and investigation cost cut down, since the CCTV system records all events with video clips as evidence. Therefore, security of staff, students and properties within the work environment become secured with CCTV systems in place. Another significant point worthy of note is that the administrator's presence always lingers in the worker's mind since the CCTV systems are always on to track and record every activity that takes place during work hours. According to Isu (2023), technology virtually aids us to be everywhere in a world of speed. Reducing the administrator's busy schedules leading to higher productivity outputs as part of modern administration merits. Hence, the resultant impact is administrative effectiveness, efficiency, and sustainability. This study therefore investigated the extent of utilization of closed-circuit television system in the management of universities in Cross River State.

Statement of the Problem

Many University communities in recent years have witnessed alarming increase at the rate which crime thrives on campuses. Criminal acts like rape, breaking of offices, stealing, snatching of cell phones and cars, cultism have become the order of the day in our tertiary institutions. Crimes of deadly impact like murder, assassination and group rebellion

on campus is germinating and would soon become high ranked crimes if neglected and unchecked. People no longer feel safe with others within university community. Crime has become the order of the day in nature and this makes fight against criminals more complicated for law enforcement agents. To successfully tackle crime, universities management need to gain knowledge from the steps taken by most developed countries in using closed circuit television to combat crime. The earlier days of universities have no record of this category of crime. It used to be a true "citadel of learning, garnished with peace and tranquility, where zealous men and woman are changed to sound citizen and champions". Unfortunately, crime has striped the university environment of its savour. Crime is outrageously handicapping curriculum implementation. The alarming rate of rise in crime and the quest for safety in tertiary institutions especially in campuses led the study of the use of closed-circuit television as a weapon for detecting these crimes that has besieged the campuses and making school safe without compromising educational goals.

Purpose of the Study

The main purpose of the study is to determine the extent of Utilization of Closed-Circuit Television System in the management of universities in Cross River State. Specifically, the study sought to:

1. Ascertain the extent to which Closed-Circuit Television System are utilized in the conduct of semester examinations in universities in Cross River State.
2. Determine the extent to which Closed-Circuit Television System are utilized in the management of institutional facilities in universities in Cross River State

Research Questions

Based on the purpose of this study, the following research questions guided the research:

1. To what extent is Closed Circuit Television System utilized in the conduct of semester examination in universities in Cross River State?
2. To what extent is Closed Circuit Television System utilized in the management of institutional facilities in Cross River State?

Hypotheses

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

HO_1: There is no significant difference in the mean ratings of state and federal universities administrative staff on the extent to which Closed Circuit Television System were utilized in the conduct of semester examinations in Cross River State.

HO_2: There is no significant difference in the mean ratings of state and federal universities administrative staff on the extent to which Closed-Circuit Television System were utilized in the management of institutional

facilities in universities in Cross River State

Methodology

The design adopted for the study was descriptive survey research design. A descriptive survey design is defined by Abonyi (2011), as one in which a group of people are studied by collecting and analyzing data from only a few of the people considered to be representative of the entire group or phenomenon. It is concerned with conditions or relationships that exist, practices that prevail, beliefs, points of view or attitudes that are held, processes that are going on, influences that are being felt and trends that are developing. This design was used because the study aimed at finding, describing and reporting events without manipulation. The area of the study is Cross River State which is located at the South-South geopolitical zone of Nigeria. The State was formed from the eastern part of the then Eastern Region on 27 May 1967. Its capital is Calabar, the Geographically, the state is located at Latitude has 4°34'59.99"N while the Longitude has: 8°24'59.99" E, it borders to the north through Benue state, to the west through Ebonyi state and Abia state, and to the southwest through Akwa Ibom state. While its eastern border with Cameroon, originally known as the South-Eastern State before being renamed in 1976, Cross River state formerly included the area that is now Akwa Ibom state, which became a distinct state in 1987. The state has two universities, University of Calabar (for Federal Government) and Cross River State University of Technology (CRUTECH) for state government. The choice of this area is to help improving healthy educational system in the area through curding crimes to minimal in the universities through the effective utilization and implementation of CCTV in the environment. The population of the study was six hundred and seventy-six (676) senior management staff of Universities in Cross River State. This includes three hundred and forty-one (341) senior administrative staff of University of Calabar (UNICAL) and three hundred and thirty-five (335) staff of Cross River State University of Technology (Cross River State University Personnel Office, 2022). The entire population participated in the study. There was no sampling, because the population size was small manageable. Therefore, it was a census survey. The research instrument used for data collection was a researcher structured questionnaire tagged "Utilization of Closed-Circuit Television System in the Management of Universities Questionnaire" (UCCTSMUQ). The instrument was divided into sections; A and B. The instrument, UCCTSMU was structured on a 4-point rating scale: Very High Extent (VHE); High Extent (HE); Low Extent (LE) and Very Low Extent (VLE). Specifically, to ascertain whether the research instrument is valid, the questionnaire was given to three experts for face validation; two experts in

AJEMATES
African Journal of Educational Management, Teaching and Entrepreneurship Studies
VOL.14 (2), January-April, 2025 https://ajemates.org

Educational Administration and Planning of the Department of Educational Foundations and one expert in Measurement and Evaluation all from Ebonyi State University, Abakaliki. A pilot study was carried out among thirty (30) senior management staff in University of Uyo, Akwa Ibom State, to determine the internal consistency and reliability of the items. The reliability coefficient was determined using Cronbach Alpha test. The overall analysis yielded a reliability coefficient of 0.96. Data were analyzed using simple descriptive statistics of mean and standard deviation to answer the research questions with help of SPSS. For the interpretation of data, range limits of numbers were employed and an item with a mean range from 1.00 – 1.49 was regarded as very low extent (VLE); 1.50 – 2.49 was regarded as low extent (LE); 2.50 – 3.49 was regarded as high extent (HE) and 3.50 – 4.00 was regarded as very high extent (VHE). Then inferential statistical tool - t-test – was employed to test the hypotheses. The null hypothesis was upheld when the p-value is greater than or equal to significant level of 0.05 (p-value ≥0.05)

Results

Research Question 1: To what extent is Closed-Circuit Television System utilized in the conduct of semester examination in universities in Cross River State?

Table 1: Mean and Standard Deviation on the extent to which Closed Circuit Television System utilized in the conduct of semester examination in universities

S/N	Items Statement	N	$\bar{X}$	SD	Decision
1	Closed Circuit Television system is used in preventing examination malpractices	668	1.92	0.61	LE
2	CCTV are used in ensuring secure environment during examinations	668	2.07	0.61	LE
3	CCTV footage is used as valuable evidence during investigations	668	2.00	0.39	LE
4	Closed Circuit Television system is used to promote fairness in the examination process	668	2.23	0.57	LE
5	CCTV are used as a deterrent of potential rule breakers during semester examinations	668	1.61	0.48	LE
6	Closed Circuit Television system is used to promote transparency in conduct of sessional examinations in the school system	668	1.69	0.46	LE
	Grand mean (x)		**1.92**		**LE**

Source: Researcher's Fieldwork 2024

Data in Table I showed that the respondents to a low agreed on items 1, 2 ,3 4, 5 and 6 with mean scores of 1.92, 2.07, 2.10, 2.23, 1.61 and 1.69 respectively. The respondents disagreed to a low extent do universities management used Closed Circuit Television system in preventing examination malpractices,

AJEMATES
African Journal of Educational Management, Teaching and Entrepreneurship Studies
VOL.14 (2), January-April, 2025 https://ajemates.org

CCTV were used in ensuring secure environment during examinations, as valuable evidence during investigations, used of Closed Circuit Television system to promote fairness in the examination process, used of CCTV as a deterrent of potential rule breakers during semester examinations and to promote transparency in conduct of sessional examinations in the school system

The data revealed that the utilization of CCTV by school management in the conduct of semester examination in universities in Cross River State is of a low extent, with a grand mean score of 1.92.

Research Question 2: To what extent is Closed Circuit Television System utilized in the management of institutional facilities in universities in Cross River State?

Table 2: Mean and Standard Deviation on the extent to which Closed Circuit Television System utilized in the management of institutional facilities in universities

S/N	Items Statement	N	$\bar{X}$	SD	Decision
7	Closed Circuit Television system is used to monitor classrooms facilities	668	2.07	0.47	LE
8	The surveillance is used to dictate misconduct in school libraries	668	2.23	0.57	LE
9	Surveillance is also utilized in checkmating the condition of laboratories facilities	668	2.07	0.61	LE
10	Closed Circuit Television system help in dictating vandalization of school properties	668	1.84	0.52	LE
11	Closed Circuit Television system is used secure school plant	668	2.15	0.36	LE
12	Closed Circuit Television system is used to validating reconstructing sequences of events	668	1.92	0.47	LE
	Grand mean (x)		**2.05**		**LE**

Source: Researcher's Fieldwork 2024

Data in Table 2 reveal that items 7-12, which are on Closed Circuit Television system is used to monitor classrooms facilities, the surveillance is used to dictate misconduct in school libraries, surveillance is also utilized in checkmating the condition of laboratories facilities, Closed Circuit Television system help in dictating vandalization of school properties, Closed Circuit Television system is used secure school plant and that Closed Circuit Television system was used to validating reconstructing sequences of events have mean scores of 2.07, 2.23, 2.07, 1.84, 2.15 and 1.92, with standard deviations of 0.47, 0.57, 0.61, 0.52, 0.36 and 0.47 respectively. With the grand mean of 2.05 data reveal that all the items were rated at a Low Extent (LE), given that LE has a range of 1.50 to 2.49.

AJEMATES
African Journal of Educational Management, Teaching and Entrepreneurship Studies
VOL.14 (2), January-April, 2025 https://ajemates.org

Hypotheses

H0₁: There is no significant difference in the mean ratings of state and federal universities administrative staff on the extent to which Closed Circuit Television System were utilized in the conduct of semester examination in in Cross River State.

Table 3: t-test of difference in the mean responses of state and federal universities administrative staff on the extent to which Closed Circuit Television System were utilized in the conduct of semester examination

Items	Category of respondents	N	Mean	SD	Df	T	P-Value	Decision
1.	State	330	1.93	0.61	666	0.590	0.555	Not Significant
	Federal	338	1.90	0.61				
2.	State	330	2.11	0.61	666	1.361	0.174	Not Significant
	Federal	338	2.04	0.61				
3.	State	330	2.02	0.38	666	1.876	0.061	Not Significant
	Federal	338	1.97	0.39				
4.	State	330	2.18	0.52	666	2.034	0.042	Significant
	Federal	338	2.27	0.61				
5.	State	330	1.62	0.48	666	0.548	0.584	Not Significant
	Federal	338	1.60	0.48				
6.	State	330	1.71	0.45	666	1.133	0.258	Not Significant
	Federal	338	1.67	0.47				

Source: Researcher's Fieldwork 2024 Significant @ P < 0.05

Result in Table 3 revealed that the mean ratings of state and federal universities administrative staff on the extent to which Closed Circuit Television System are utilized in the conduct of semester examination in Cross River State was not significant in most of the items like item 1,2,3,5 and 6, as the p-value even t-value was greater than the Alpha value of 0.05. but only item 4 recorded significant. This means that state and federal administrators were of the same opinion on the extent to which Closed Circuit Television System are utilize in the conduct of semester examination.

H0₂: There is no significant difference in the mean ratings of state and federal universities administrative staff on the extent to which Closed Circuit Television System are utilize in the management of institutional facilities in universities in Cross River State.

AJEMATES
African Journal of Educational Management, Teaching and Entrepreneurship Studies
VOL.14 (2), January-April, 2025 https://ajemates.org

Table 4: t-test of difference in the mean responses of state and federal universities administrative staff on the extent to which Closed Circuit Television System are utilize in the management of institutional facilities in universities in Cross River State

Items	Category of Respondents	N	Mean	SD	Df	T	P-Value	Decision
7	State	330	2.08	0.50	666	0.293	0.769	Not Significant
	Federal	338	2.07	0.44				
8	State	330	2.17	0.50	666	2.695	0.007	Significant
	Federal	338	2.29	0.63				
9	State	330	2.09	0.64	666	0.601	0.548	Not Significant
	Federal	338	2.06	0.59				
10	State	330	1.83	0.50	666	0.383	0.702	Not Significant
	Federal	338	1.85	0.55				
11	State	330	2.16	0.37	666	0.559	0.576	Not Significant
	Federal	338	2.14	0.35				
12	State	330	1.89	0.45	666	1.760	0.079	Not Significant
	Federal	338	1.95	0.49				

Source: Researcher's Fieldwork 2024 Significant @ P < 0.05

Result in Table 4 revealed that the mean ratings of state and federal universities administrative staff on the extent to which Closed Circuit Television System are utilized in the management of institutional facilities in universities in Cross River State was not significant, as the p-value was greater than alpha level of 0.05. Only item 8 recorded significant. This means that state and federal administrative staff were of the same opinion on the extent to which Closed Circuit Television System are utilize in the

Discussion

Result of the study as presented in Table 1 showed that: to a low extent universities management used Closed Circuit Television system in preventing examination malpractices, CCTV were used in ensuring secure environment during examinations, as valuable evidence during investigations, used of Closed Circuit Television system to promote fairness in the examination process, used of CCTV as a deterrent of potential rule breakers during semester examinations and to promote transparency in conduct of sessional examinations in the school system. The based on the data analyzed, research question concluded that, the utilization of CCTV by school management in the conduct of semester examination in universities in Cross River State are to low extent while the test of hypothesis indicated that there is no significant difference in the mean ratings of state and federal universities administrative staff on the extent to which Closed Circuit Television System are utilize in the conduct of semester examination in in Cross River State.

The results are in line with the findings of Golam, (2017). who asserted the utilization of Closed-Circuit Television (CCTV) cameras in conducting semester examinations in universities in Nigeria has been found to be low. as many universities in Nigeria have not installed CCTV cameras in examination halls, making it difficult to monitor and prevent malpractices.

Research question two which was on Closed Circuit Television system is used to monitor classrooms facilities, the surveillance is used to dictate misconduct in school libraries, surveillance is also utilized in checkmating the condition of laboratories facilities, Closed Circuit Television system help in dictating vandalization of school properties, Closed Circuit Television system is used secure school plant and that Closed Circuit Television system is used to validating reconstructing sequences of events. The study then concluded that Utilization of Closed-Circuit Television System in the management of institutional facilities in universities in Cross River State was to a low extent while the results of the hypothesis revealed that there is no significant difference in the mean ratings of state and federal universities administrative staff on the extent to which Closed Circuit Television System are utilize in the management of institutional facilities in universities in Cross River State. This finding is in agreement with Hulme, (2020) who note that the utilization of CCTV (Closed-Circuit Television) in the of institutional facilities has been a topic of considerable interest, particularly with respect to its effectiveness and extent of use.

Conclusion

In line with the findings of the study, the researcher concluded that the utilization of CCTV by school management in the conduct of semester examination in universities, utilization of Closed-Circuit Television System in the management of institutional facilities in universities,
were to low extent. Therefore, educational institutions can significantly enhance the effectiveness and utilization of CCTV systems for both, examinations conduct, instructional facilities, instructional supervision and management of human resources if the needed financial aid are disbursed for procurement of CCTV devices.

Recommendations

Based on the findings, the following recommendations are made;

1. With regards to low utilization of CCTV during semester examinations school management should Educate students and staff on the benefits of CCTV surveillance during examinations, including enhanced security and integrity. Conduct workshops to train examination invigilators on how to effectively use CCTV for monitoring.
2. As relate to low utilization of CCTV in managing institutional facilities

government of Cross River State should develop clear policies outlining the purpose and appropriate use of CCTV in institutional facilities. Ensure these policies emphasize safety, security, and maintenance of the institution's integrity.

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