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Impact of Effective Communication on Institutional Performance: Case Study in Higher Learning Institutions

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Authors' contributions

This work was carried out in collaboration among all authors. All authors read and approved the final manuscript.

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ABSTRACT

Effective communication is crucial for institutional success as the globe becomes a smaller and more interconnected community. In recent times, Information technology has significantly improved how employees and employers interact with each other. Effective and efficient communication is achieved when institutions adopt new and faster technologies that improve the performance of employees. This research empirically tests the impact of effective communication on institutional performance in the educational sector, specifically in Bayelsa Medical University, Yenagoa, Bayelsa State. Questionnaires were administered to sample respondents which comprised of Principal officers, Deans, Directors, Heads of Departments, academic and senior non-academic staff. ANOVA and factor analysis were used to assess the structural relationship between the variables at a 5% level of significance.

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A total of 180 respondents (25 academic staff and 155 non-academic staff members) from fourteen (14) different departments/units participated in this study. The findings of this study revealed that effective communication via the studied variables has a significantly positive effect on employee performance Four key variables (Communication Process (t = 4.003, β = 1.786, p = 0.00); Culture/Climate (t = 3.316, β = 1.483, p = .001); Verbal and Non-verbal Cues (t = 1.990, β = .832, p = .047); and Communication Techniques (t = 5.092, β = 1.808, p = .000)) were determinants of employee effective communication in an institution. The findings revealed that effective communication process were significantly related to organizational performance.

The researchers recommends that every institution should make an effort to incorporate effective communication into its management strategies, as doing so will help reduce organizational conflict, clear up misunderstandings, and improve cordial relationship between management and workforce.

Keywords: Effective communication; institution; organization; performance; strategies.

ABBREVIATIONS

ANOVA : Analysis of Variance

BMU : Bayelsa Medical University

ECQ :Effective Communication

Questionnaire

VC : Verbal and Non-verbal Cues CT : Communication Techniques

WE: Work Efficiency (WE)
OP: Organizational Performance
CP: Communication Process

SPSS : Statistical Package for Social Scientist IBM : International Business Machines

ICT : Information and Communication

Technology

1. INTRODUCTION

In today's environment, doing business is quite difficult. All production components (people, machinery, and materials) must be skillfully handled in order to remain profitable. To effect desired change, communication is necessary. It is essential for motivating and steering the workforce in the direction of achieving the organizational goals or objectives [1]. Most institutions, including private and public entities rely on some form of communication to convey their messages to their target audience, or inform them of the vision and mission of their entity.

In any organization, the success of achieving its goals depends largely on the manager's communication ability and skills [2]. Today's most successful managers are those who comprehend the importance of communication and apply it to their workplace. Effective interpersonal communication skills are also essential to social interaction, and to the building and maintenance of all relationships. Poor communication skills on

the other hand can cause irrevocable damage to relationships; affecting productivity, satisfaction, performance, morale, trust, respect, selfconfidence, and even physical health [3].

Essentially, Communication is a perceptual process. To produce communications, the sender must encrypt the intended meaning. The message is subsequently decoded by the receiver to produce the desired meaning. The sender and the receiver must understand the rules that are used to encrypt messages with meaning in communication to be effective. As shown in Fig. 1, effective communication between individuals (the sender and the receiver) involves many steps. including encoding, decodina. feedback [4].

According to Mckinney et al. [5], effective team performance is dependent on communication, which they compare to blood flow in the body. Thus, communication is used in the workplace by every institution that recognizes its significance. So it guarantees the coordination of the production variables and, most significantly, the material and human components of the organization as a successful network for change and advancement. When a message is sent effectively, the sender receives the expected response from the recipient [6]. Effective communication begins with the sender and ends with the receiver decoding it. When the intended meaning of the sender cannot be deciphered by the recipient, communication is said to be ineffective. It is said to be ineffective communication when receiver of the message did not decode the intended of the sender [7]. It is through feedback that information achieves its desires results.

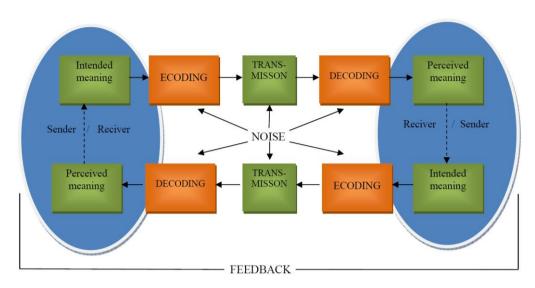


Fig. 1. Communications Model (Source: Banihashemi, [8])

Table 1. Types of communication

SN	Types	Explanation
1	Downward communication	The procedure is owned and managed by management, and it is used to pass information throughout the organization.
2	Downward and upward communication	Management and operational workers communicate in both directions, and ownership of the process is occasionally shared.
3	Downward, upward, and lateral communication	Information is freely exchanged within the company.

Communication typically comes in one of three forms (See Table 1). Top-down communication is used to impersonally direct, control, and instruct at its simplest level. Top-down communication is frequently linked to hierarchically structured, centrally managed organizations where decisions are made at higher operating levels within the hierarchy with little to no input from lower operating levels. Although team briefings are typically handled by middle managers, feedback is not required. Two-way communication, as opposed to top-down communication, aims to foster an environment where individuals can freely contribute more to the accomplishment of the organization's objectives. The alignment of project goals and individual goals, as well as best practices. are all related two-way communication.

Puth [9] believed that by informing employees and including them in policy making, performance within an organization could be considerably enhanced. This also increases an organization's overall employee satisfaction and productivity. However, lack of communication

between employers and employees causes workers to feel generally unappreciated. undervalued, or unreliable as professionals. In it was asserted that personnel constitute an entity's most valuable resource. As a result, managers have a duty to promote twoway information flow in order to maximize organizational performance and productivity. As a result, communication is crucial for all parties involved because it supports the majority of managerial goals. Internal communication is required ethically to start planning for growth, to consolidate resources efficiently and cheaply, and to choose, develop, and evaluate team members.

Significantly, "as the world becomes a Global village, the impact of communication keeps growing. Many times, the utilization of technology for communication purposes is beneficial, especially in saving cost and time for bulk messages. In situations where communicating is made difficult by barriers, technology comes in handy to minimize or eliminate the challenges by making communication easier. In cases when

faced with such barriers, organizations should seek solace in technology. Therefore, use of technology in communication should be encouraged as long as the positive outcomes are desirable.

Several firms have adopted technological innovations to improve institutional performance as a result of the requirement to be seen by the world. Bayelsa Medical University (BMU) and University of Benin (UNIBEN) are one of such institutions, as it explores blended learning and e-training to empower its students employees in using the internet to communicate policies, staff development, lectures, and much more. This would be a turning point for the university's overall networked approach to performance and communication. In order to maintain high performance rates, it is crucial to emphasize on innovation and effective use of communication channels. So, any breakdown in the communication process or chain can have a significant negative impact on the effectiveness of an institution."

In the view of Okoye [10], communication goes beyond reception information of understanding and feedback. Most organizational conflict has been traced to breakage in communication supported as Notwithstanding, the great contributions that efficient communication makes to enhancing institutional performance, it is sad that certain faculties only speak plausibly about the of successful communication maintenance systems. Also, staff members' persistent delay in accessing information appear to have an impact on their productivity, which could lead to poor coordination of organizational tasks [12]. As a result, how well employees perform in relation to their responsibilities and tasks raises doubts about the effectiveness of their communication strategies in the context of university performance.

Supporting this, Lepsinger and Luacia cited in Nebo et al, [13] noted that the most significant reason why people do not develop in their careers, as said, is inadequate communication. Thus, how effectively personnel carry out their jobs and responsibilities tends to call into question how well they communicate within the institution. In order to provide its staff or students with useful and encouraging feedback, the Governing Council of the both learning institutions must decide the best "channel" to use. Even so, there are several obstacles to

communication, including filtering, selective perception, information overload, personal bias, linguistic and communication anxiety. In order to achieve effective results, management must attempt to overcome these obstacles. In light of these circumstances, this study used the educational and healthcare sectors as a case study to investigate the effects of good communication on institutional performance.

1.1 Objectives of the Study

The main objective of this study is to examine the impact of effective communication on institutional performance, using Bayelsa Medical University and University of Benin as case studies. The specific objectives includes to:

- 1. Assess the effect of the communication process amongst employee performance.
- 2. Determine the impact of culture and climate on employee performance.
- 3. Evaluate the effectiveness of verbal and nonverbal communication cues on employee performance.
- 4. Examine the impact of communication techniques on employee performance.

1.2 Hypothesis

- H₀¹ :There is no significant relationship between the process of communication and employee performance.
- H₀² :There is no significant relationship between Culture/climate and employee performance.
- H₀³ :There is no significant relationship between Verbal & non-verbal communication and employee performance.
- H₀⁴ :There is no significant relationship between Communication technique and employee performance."

2. METHODS

A study design provides a framework for gathering and analyzing data (Mejabi et al., 2017). Descriptive survey design was chosen as the research method for this study because it enables generalization of the findings from the sample to the total population. A descriptive survey research method is a study that tries to gather data from a population and describe the data acquired in a systematic manner, according to Nworgu [14], referenced in Obienu and Amadin [15]. Hence, as this study involves the

collecting of data from a population and the methodical description of the data acquired, this research design was chosen. BMU and UNIBEN, served as the study locations.

The questionnaire with the designation "Effective Communication Questionnaire" (ECQ) served as the research tool for the survey (See Table 2). There were two sections to the questionnaire. Section A asked about demographics which included; age, gender, job experience, faculty/unit, and department. Section B asked about the factors being studied and included thirty (30) items. Six subcategories were used to further segment the questions in Section B.

Verbal and non-verbal cues (VC). Communication Techniques Work (CT), Efficiency (WE), Organizational Performance (OP), and Communication Process (CP), each of which covered five questions. The respondents' responses were solicited using a five-point Likert scale, with 1 denoting "strongly disagree," 2 denoting "disagree," 3 denoting "undecided," 4 denoting "agree," and 5 denoting "strongly agree." The five-point scale was used to reduce the social desirability bias and is consistent with earlier IS research studies [16,17]. Some of the items were taken from earlier studies and changed to fit the context and goals of the current study.

Table 2. The communication measures

Construct	Item Code	Item
Communication	CP_1	The communication process among colleagues establishes
Process (CP)		interpersonal connection and establishes bridges among
		employees.
	CP_2	Through proper communication process management are
		able to plan and coordinate the activities effectively.
	CP_3	The institution communication process ensures a concise and
		precise information rapid transmission of the message among
		colleagues.
	CP_4	The communication process in my institution encourages
		fluency, reversibility of communication and assurance of a
		common language among colleagues.
	CP_5	Effective communication in the work place ensures that
		conflict that arises are resolved.
Culture/Climate	CC_1	Through effective communication staff in my institution are
(CC)		able to connect with other staff and students.
	CC_2	The culture and climate of my institution ensures inward and
		outward communication.
	CC_3	The information transmitted through the communication
		process triggers the accomplishment of employee's activities.
	CC_4	The management of my institution provides a climate of
		proper strategic direction and vision, which motivate and build
		team spirit and mutual respect among staff.
	CC_5	The communication culture of my institution encourages free
		interaction and creates synergy and creativity.
Verbal and Non-	VC_1	My institution encourages media (phones, teleconferencing)
Verbal Cues (VC)		and verbal cues (words, orders, instructions) to convey
		information among employees
	VC_2	My institution encourages face-to-face medium of
		communication, for it generate timeliness of feedback and
		encourages capacity for natural expression.
	VC_3	When communicating, staff members at my institution use a
		variety of non-verbal clues, including body language (such as
		tone of voice and facial expression), to convey emotions.
	VC_4	Video conferencing, phone interactions, chat (instant
		messaging), email, text message is encourage among staff in
		my institution.
	VC_5	Written documentation involving notes, memo, and letter is
		encouraged in my institution.

Construct	Item Code	Item
Communication Techniques (CT)	CT_1	My institution encourages a two-way horizontal or vertical communication or conversation between and among employees.
	CT_2	At all levels, all employees are free to engage and exchange opinions, ideas, and even criticism in my institution's open communication environment.
	CT_3	My institution encourages formal and informal communication among employees.
	CT_4	My institution encourages written, visual and Audio visual means of communication among staff.
	CT_5	My institution adopt an interactive model of communication
Work Efficiency (WE)	WE_1	My institution ensures a transaction of ideas, directory command and guide in oral and written messages.
(,	WE_2	My institution clearly set and communicates performance standards that meet the expectations of workers and improve their work efficiency.
	WE_3	Through effective communication employees in my institution are able to develop and sustain a competitive edge in their
	WE_4	industry. The communication process among employees' in my institution ensures that messages sent and feedback
	WE_5	responses are efficiently implemented. My institution has in place effective strategies, system and practices that directly affect the work efficiency of employees' learning and innovation.
Organizational Performance (OP)	OP_1	My institution business environment is open and encourages effective communication among employees.
,	OP_2	My institution ensures that communication is facilitated by exchange of information and operational efficiency.
	OP_3	The communication process adopted by my institution is effective and shows a signal of care of well-being and values
	OP_4	among employees. In my organization, encouraging team communication is
	OP_5	greatly facilitated by frequent face-to-face meetings, emails, and phone calls. Employees in my institution are satisfied with the communication culture, technological system used and distributed work setting and allocation.

Scale labels: "1 - Strongly Disagree, 2 - Disagree, 3 - Undecided, 4 - Agree, 5 - Strongly Agree".

A sample size of four hundred and twenty (440) was selected using stratified random sampling method. A total of 440 questionnaires was administered to staff members in both institutions. To ensure that subsequent analysis is based on a comprehensive dataset void of any issues like missing answers, a multi-step screening process was used to filter the data.

2.1 Model Specification

In order to test the hypotheses of the study, models were formulated. The generalized model depicting relationship between independent (Communication Process, Culture/Climate, Verbal and Non-verbal Cues, Communication Techniques, Work Efficiency (WE)) and dependent variable (Organizational Performance) are expressed mathematically (see equation 1-5) as follows;

 H_0^{-1} : There is no significant relationship between the process of communication and employee performance.

$$OP = f(CP) \tag{1}$$

$$OP = \alpha + \beta_1 CP_{1-5} + \varepsilon$$
 (2)

Where:

OP = Organizational Performance CP = Communication Process

 α = constant; β_1 , β_2 = Estimate of parameters; ε = Error Term

H₀²: There is no significant relationship between Culture/climate and employee performance.

OP =
$$\alpha + \beta_1 CC_{1-5} + \beta_2 WE_{1-5} + \epsilon$$
 (3)

Where:

CC = Culture/Climate WE = Work Efficiency

H₀³: There is no significant relationship between Verbal & non-verbal communication and employee performance.

OP =
$$\alpha + \beta_1 VC_{1-5} + \beta_2 WE_{1-5} + \epsilon$$
 (4)

Where:

VC = Verbal and Non-Verbal Cues

H₀⁴: There is no significant relationship between Communication technique and employee performance.

OP =
$$\alpha + \beta_1 CT_{1.5} + \beta_2 WE_{1.5} + \epsilon$$
 (5)

Where:

CT = Communication Techniques

2.2 Data Analysis

The International **Business** Machines Corporation (IBM) version 25 of the Statistical Package for Social Scientist (SPSS) program was used to study the relationship between the effective communication and Institutional performance. Specifically, simple percentage, statistical frequency tables were used to analyze demographic characteristics of respondents and background information of the institution. The confirmatory factor analysis, mean, standard deviation; correlation and regression analyses were used to analyze the items of the research instrument involving communication process, culture/climate. verbal and non-verbal, communication techniques. employee efficiency and organizational performance.

The research hypotheses were tested using regression analysis to identify the significant level of the dependent variable (organizational performance) on the independent variables (communication process, culture/climate, verbal and non-verbal, communication techniques). R,

R², F-statistic, T-test and ANOVA were conducted.

3. RESULTS

3.1 Reliability Test for Core Construct

Coefficient alpha method was used to perform reliability analysis so as to measure the internal consistency of the five-point Likert scale used in this study. Coefficient alpha, as shown in equation 6 below, is widely accepted as suitable for reliability testing [18]. Furthermore, most studies assume that an alpha score greater than .70 is acceptable [19-22]. Hence, as shown in Table 3, majority of the model constructs are reliable since computted statistics is above 0.7, which shows that the questions related to the employee performance are highly reliable.

$$\alpha = \left(\frac{n}{n-1}\right) \left(1 - \sum_{i=1}^{k} \sigma_i^2 / \sigma_s^2\right) \tag{6}$$

Where:

n = the number of items in the scale, while σ_i^2 and σ_s^2 = the variance of item, i and of the scale, s respectively.

3.2 Study Sample Characteristics

Out of 440 participants contacted (175 academic staff and 265 non-academic staff members) who started the questionnaire, only 169 academic staff and 262 non-academic staff members completed it, making a total of 431 respondents. Some of these answers were only partially complete. They were therefore dropped. After the research data were successfully collected, several statistical analyses were carried out using the 420 complete and usable responses to look at the underlying relationships in the research model.

By analyzing the responses of section A of employees' productivity questionnaire, it can be determined that the study sample is appropriately diverse in terms of gender, age, and department. According to the data in Table 4, the majority of participants were the Faculty of Science, who made up 80 participants (19.1%), followed by Registry staff, who made up 41 participants (9.8%). The respondents' average age was 34.63. The majority of participants (66.1%) were new employees with less than six years of work experience, while 6.1% were highly experienced employees.

Table 3. Reliability coefficients of constructs

Reliability Statistics		
Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	No. of Items
.869	.908	30

Table 4. Study sample characteristics

Factors	Frequency	Percentage (%)
Institution		
Bayelsa Medical University	180	42.86
University of Benin	240	57.14
Total	420	100.00
Faculty/Unit		
Arts	23	6.61
Basic Medical Sciences	30	7.14
Bursary	26	6.19
Clinical Science	30	7.14
Foreign Languages	15	3.57
Foundation Studies	18	4.29
General Studies	21	5.00
Humanities	22	5.24
Health Sciences	34	8.10
ICT	15	3.57
LAW	20	4.76
Library	21	5.00
Pharmacy	11	2.62
Registry	41	9.76
Science	80	19.05
Vice Chancellor Office	15	3.57
Works	21	5.00
Total	420	100.00
Category		
Academic	155	36.90
Non-Academic	265	63.10
Total	420	100.00
Gender		
Male	156	37.14
Female	264	62.86
Total	420	100.00
Age		
< 30years	55	13.10
30-40 years	302	71.90
>40years	63	15.00
Total	420	100.00
Work Experience		
< 6 years	238	56.67
6 - 10 years	101	24.05
11 - 15 years	65	15.48
> 15years	16	3.81
Total	420	100.00
ICT Compliance		
< 1 year	84	30.00%
1 - 3 years	200	45.50%
4 - 7 years	95	16.70%

Factors	Frequency	Percentage (%)
> 7years	41	7.80%
Total	420	100.00%

3.3 Test of Hypotheses

H₀¹: There is no significant relationship between the process of communication and employee performance

Table 5 shows that coefficient of determination R = .424; R^2 = .180 and adjusted R^2 = 0.157 which gives proportion of variance (Adjusted R^2 x 100) = 15.7 %. This suggests that the communication process (cp), an independent variable, explained 15.7% of the variance in organizational performance, a dependent variable (op).

The F-statistic was calculated to see if there is a meaningful link between the dependent variable and independent variable. The model regression Sum of Square = 27.194, df = 5, calculated F=

7.644, p = .000 is significant at 5% level. There is a significant effect between communication process (cp) and organizational performance (op).

The t-statistic was used in an economic model to assess the significance of the coefficient of the independent variable (see Table 6). The calculated t for communication process is t=4.003, $\beta=1.786$, p=0.00. This implies that there is a strong connection between organizational effectiveness and the communication process. As a result, the alternate hypothesis is accepted.

H₀²: There is no significant relationship between Culture/climate and employee performance

Table 5. Multiple regression model of communication process and organizational performance

Model	Summary ^b					
Model	R	R Square A	djusted R S	quare Std. Er Estima	ror of the te	Durbin-Watson
1	.424 ^a	.180 .1	157	.844		1.612
a. Pred	dictors: (Const	tant), CP_5, CP	_3, CP_1, C	P_4, CP_2		
b. Dep	endent Variab	ole: OP				
ANOV	A^a					
Model		Sum of Square	es Df	Mean Square	F	Sig.
1	Regression	27.194	5	5.439	7.644	.000 ^b
	Residual	123.800	174	.711		
	Total	150.994	179			
a. Dep	endent Variab	le: OP				
b. Pred	dictors: (Const	tant), CP 5, CP	3. CP 1. C	P 4. CP 2		

Table 6. Relative contribution of the dependent variables (organizational performance) to the independent variable (communication process)

Mode	el	Unstand	ardized Coefficients	Standardized Coefficients	t	Sig.
		В	Std. Error	Beta		
1	(Constant)	1.786	.446		4.003	.000
	CP_1	.061	.077	.068	.796	.427
	CP_2	.196	.086	.193	2.268	.025
	CP_3	.180	.067	.229	2.668	.009
	CP_4	.253	.090	.248	2.818	.006
	CP 5	.035	.072	.043	.485	.628

Source: Field Survey, March, 2023

Table 7. Multiple regression model of culture/climate, work efficiency and organizational performance

Model 3	Summary⁵							
Model	R	•	Adjusted F Square		Std. Eri Estimat	ror of the te	Durbin	-Watson
1	.596 ^a	.355	.317		.918		1.952	
a. Predi	ictors: (Cons	stant), WE_	5, CC_1, W	/E_1, C	C_2, WI	E_2, CC_5, WE	_4, CC_3	3, WE_3, CC_4
b. Depe	endent Varia	ble: OP						
ANOVA	∖ a							
Model		Sum of S	Squares	Df		Mean Square	F	Sig.
1	Regression	68.300		10		7.830	9.291	.000 ^b
	Residual	142.428		169		.843		
	Total	220.728		179				
a. Depe	endent Varia	ble: OP						
•			5, CC_1, W	/E_1, C	C_2, WI	E_2, CC_5, WE	_4, CC_3	3, WE_3, CC_4

Table 7 shows that coefficient of determination R = .596, R^2 = .355 and adjusted R^2 = .317 which gives proportion of variance (Adjusted R^2 x 100) = 31.7%. This implies that the independent variable culture/climate (cc) accounted for 31.7% of the variance in the dependent variable organizational performance (op).

The F-statistic was calculated to see if there is a meaningful link between the dependent variable and independent variables. The Regression sum of square = 68.300, df = 10. The model calculated F= 9.291, p = 0.000 is significant at 5% level. There is a significant effect between

culture/climate, work efficiency and organizational performance.

The t-statistics (see Table 8) was calculated to ascertain the significance of the coefficient of independent variable in the econometric model. The calculated t for mobile advert tools is t=3.316, $\beta=1.483$, p=.001. This implies that there is a significant relationship between culture/climate, work efficiency and organizational performance. Thus the alternate hypothesis is accepted.

 ${\rm H_0}^3$: There is no significant relationship between Verbal & non-verbal communication and employee performance.

Table 8. Relative contribution of the dependent variables (organizational performance) to the independent variable (culture/climate)

Coefficients ^a					
Model	Unstan	dardized Coefficients	Standardized Coefficients	t	Sig.
	В	Std. Error	Beta		
1 (Constant)	1.483	.447		3.316	.001
CC_1	.279	.087	.314	3.219	.002
CC_2	.123	.104	.112	1.184	.239
CC_3	205	.094	241	-2.187	.031
CC_4	045	.080	052	559	.577
CC_5	084	.086	094	976	.331
WE_1	.085	.133	.065	.639	.524
WE_2	.140	.097	.122	1.447	.151
WE_3	.212	.074	.257	2.818	.006
WE_4	.249	.096	.247	2.585	.011
WE_5	.069	.077	.085	.905	.367
a. Dependent Va	riable: OP				

Source: Field Survey, March, 2023

Table 9. Multiple regression model of verbal and non-verbal cues, employee work efficiency and organizational performance

Model	R	R Square Adjuste Square		Std. Error of the Estimate	Dur	bin-Watson
1	.575 ^a	.331 .291		.773	1.87	' 2
a. Predic	ctors: (Co	nstant), WE_5, VC_	5, WE_1, '	VC_3, VC_4, WE_2	, VC_2, VC	_1, WE_4, WE_3
b. Deper	ndent Var	iable: OP				
ANOVA	a					
Model		Sum of Squares	Df	Mean Square	F	Sig.
1 Reg	gression	49.988	10	4.999	8.363	Sig. .000 ^b
Res	sidual	101.007	169	.598		
Tota	al	150.994	179			
a. Deper	ndent Var	iable: OP				
•		nstant), WE_5, VC_	5, WE 1, '	VC 3, VC 4, WE 2	, VC 2, VC	1, WE 4, WE 3
				Survey, March, 2023	, ,	_ , ,

Table 10. Relative contribution of the dependent variables (organizational performance) to the independent variable (verbal and non-verbal cues)

Coefficients ^a Model		standardized Coefficients	Standardized Coefficients	t	Sig.
	В	Std. Error	Beta		
1 (Constan	t) .832	.423		1.990	.047
VC_1	.274	.085	.310	3.207	.002
VC_2	.152	.099	.143	1.527	.129
VC_3	220	.094	256	-2.322	.022
VC_4	053	.080	062	661	.510
VC_5	099	.086	111	-1.149	.253
WE_1	.089	.130	.068	.677	.500
WE_2	.138	.097	.122	1.428	.156
WE_3	.218	.075	.265	2.888	.005
WE_4	.246	.096	.244	2.571	.011
WE_5	.079	.076	.098	1.041	.300
a. Dependent Va	riable: OP				

Table 9 indicates that coefficient of determination R = .575, $R^2 = .331$ and adjusted $R^2 = 0.291$ which gives proportion of variance (Adjusted $R^2 \times 100$) = 29.1%. This shows that the independent variables (verbal and non-verbal cues) accounted for 29.1% of the variance in the dependent variable moderating variable work efficiency (we) and organizational performance (op).

The F-statistic was calculated to see if there is a meaningful link between the dependent variable and independent variable. The regression sum of square = 49.998, df= 10. The model calculated F=8.363, p=0.000 is significant at 5% level. There is a significant effect of verbal and non-

verbal cues on employees work efficiency and organizational performance.

The t-statistics (see Table 10) was calculated to ascertain the significance of the coefficient of independent variable in the econometric model. The calculated for developing t competitive strategy is t = 1.990, $\beta = .832$, p =.047. This implies that there is a significant relationship between verbal and non-verbal cues, work efficiency and organizational performance.

H₀⁴: There is no significant relationship between Communication technique and employee performance

Table 11. Multiple regression model of communication techniques, work efficiency and organizational performance

Model	R	R Square A	djusted R Square	Std. Error of	the	Durbin-Watson	
				Estimate			
1	.556 ^a	.309 .2	268	.788		1.734	
a. Pr	edictors: (Con	stant), WE 5,	WE_1, WE_2, CT_2,	WE 3, CT 4, C	T 1, WE	4, CT 3, CT 5	
	ependent Varia		_	_ , _ ,	_ ′	_ , _ , _	
ANOVA ^a							
Model		Sum of Squa	res Df	Mean Square	F	Sig.	
Model 1	Regression	Sum of Squa 46.718	res Df 10	Mean Square 4.672	F 7.527	Sig. .000 ^b	
Model 1				•	-		
Model 1	Regression	46.718	10	4.672	-		
1	Regression Residual	46.718 104.277 150.994	10 168	4.672	-		

Table 11 indicates that coefficient determination R = .556, $R^2 = .309$ and adjusted gives proportion $R^2 = 0.268$ which variance (Adjusted R^2 x 100) = 26.8%. This implies that the independent variable communication techniques (ct) accounted for 26.8% of the variance in the dependent variable, organizational performance (op).

The F-statistic was calculated to see if there is a meaningful link between the dependent variable and independent variable. The regression sum of square= 46.718, df =10. The model calculated F= 7.527, p = .000 is significant at 5% level. There is a significant relationship between

communication techniques and organizational performance.

The t-statistics (see Table 12) was calculated to ascertain the significance of the coefficient of independent variable in the econometric model. The calculated t for communication techniques is t = 5.092, $\beta = 1.808$, p = .000. This implies that there is a significant relationship between communication techniques, work efficiency and performance. organizational Thus the alternate hypothesis is accepted, which states that there is a significant relationship between technique Communication and emplovee performance.

Table 12. Relative contribution of the dependent variables (organizational performance) to the independent variable (communication techniques)

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		В	Std. Error	Beta	_	
1	(Constant)	1.808	.355		5.092	.000
	CT_1	009	.103	009	089	.929
	CT_2	045	.098	043	466	.642
	CT_3	016	.108	015	150	.881
	CT_4	.175	.091	.187	1.934	.056
	CT_5	.804	.635	.617	1.266	.208
	WE_1	587	.621	451	945	.347
	WE_2	.179	.097	.158	1.836	.069
	WE_3	.232	.075	.280	3.038	.003
	WE_4	.216	.101	.214	2.139	.034
	WE 5	.013	.076	.017	.176	.860

Source: Field Survey, March, 2023

Table 13. Summary of Hypotheses

#	Hypothesis	<i>t</i> -value	<i>p</i> -value	Result
H ₁	Employee performance and the communication process are significantly correlated.	4.003	0.00	Accepted
H ₂	Employee performance and culture/climate have a substantial relationship.	3.316	0.01	Accepted
H ₃	Employee success is significantly correlated with verbal and nonverbal communication.	1.996	0.04	Accepted
H ₄	There is a significant relationship between Communication technique and employee performance.	5.092	0.00	Accepted

4. DISCUSSION

deliberate The need for and effective communication in an institution is essential. As staff members frequently deal with students, colleagues, and management, interpersonal communication has become an essential skill for today's workforce. Employers now look for quality skills in interpersonal communication, critical thinking, and problem-solving, not just the ability to complete job duties [3]. Consequently in absence of effective communication, institutional goals will succumb to individualistic and personal goals [2]. Also, it could lead to unease, trepidation, and dissatisfaction, all of which have a negative impact on productivity.

The finding revealed that effective communication process were significantly related to organizational performance (t = 4.003, β = 1.786, p = 0.00). This finding is in line with several researchers [23,24], who were of the view that effective communication process is strategic for organizational goal achievement. It starts from the sender to the receiver in a Through feedback means. effective communication process, employees establish interpersonal connections, coordinate activities effectively and ensure concise, precise and rapid transmission of information and messages amongst employees.

The findings also revealed that organizational culture and climate has a significant effect on employees work efficiency and organizational performance (t = 3.316, β = 1.483, p = .001). The result upholds that practice of communicating with employees within the organization gives room for better connection with colleagues, students. The climate of the organization also provides a strategic direction, motivation and fosters team building, free interaction and mutual respects among staff. Supporting this, several

researchers including Nnamani and Ajagu [25]: Pace, et al., (2013) and Pollock (2010) were of the view there is in existence sufficient relationship between employees, corporate culture, climate variables and work environment and an organization's performance. This means that efforts should be made to raise employee knowledge of corporate culture through the development of strong working relationships, the formulation of values that will be passed down to employees, and the creation of an environment conducive for learning. With these three factors in place, employees' understanding of corporate culture will advance and begin to represent normal behavior in carrying out duties and responsibilities.

The majority of organizations, including public and private entities, rely on some form of communication to transmit their messages to their target audience or to inform them of the goal and vision of their organization. When effective communication is present, employees tend to exaggerate their performance. For when the information about an organization's policies and procedures are at its optimum level with openness and accuracy; and also when the information provided is adequate, factual and has good feedback [26,27]. The findings also revealed that verbal and non-verbal cues has a significant effect on employees work efficiency and organizational performance, (t = 1.990, β = .832, p = .047). This result finding is in line with the study of Gabbot and Hogg [28]. They emphasis that verbal and non-verbal communication takes place in every interaction among employees in an organization. Also the study carried out by Salmor and Joiner (2005), was in support of social media as a means of communication. These include Microsoft teams, emails, interactive chats, instant messaging, telephones, and video conferencing which help to promptly convey information.

Finally, the finding revealed that interactive communication of two-way means (horizontal or vertical) has a significant impact on employees work efficiency and organizational performance, $(t = 5.092, \beta = 1.808, p = .000)$. The study confirms that institutions must adopt techniques such as audio, telephone, video conferencing that are effective in transmitting information among employees through a horizontal, vertical, upward and downward means, across all levels in the institution. This study is supported by that of Banihashemi [29], Omoregie [30]. The importance of communication may appear intuitively obvious when employees' needs are addressed through satisfying communication [31-36]. They are more likely to form productive working relationships [37-40]. This implies that the manner in which information travels within an institution affects how employees see their roles in and relationships with the organization.

4.1 Findings

The findings of this study are as follows:

- The study affirmed that effective communication improves the performance of employees in learning institutions.
- From the findings of the study it can be considered that channels of communication plays a key role in effective management of learning institutions.
- There is a significant positive relationship between Communication Process; Culture/Climate; verbal/non-verbal cues; and communication techniques with institutional performance.
- 4) Interactive communication of two-way means (horizontal or vertical) are important in determining both the variance explained in employee productivity and employee performance (t = 5.092, β = 1.808, p = .000) [41,42].
- 5) Most importantly, the study found that significant relationship between communication process and employees' commitment.

5. CONCLUSION AND RECOMMENDA-TIONS

Communication is a means of bringing about change. It is the cornerstone of any organization's expansion. This current study examined the influence of good communication on employee performance, a case study of Bayelsa Medical University. Four key variables

(Communication Process. Culture/Climate. Verbal and Non-verbal Cues. and Communication Techniques) were determinants of employee effective communication in an institution. It becomes clear that channels of communication are one of the most productive ways to build a relationship, and qualified managers must navigate through all phases of communication in order to stay productive. The researchers therefore recommend that every institution should make an effort to incorporate effective communication into its management strategies, as doing so will help reduce conflict, organizational clear misunderstandings, and improve employee performance.

Again, "a downward, upward, and lateral communication environment is one in which everyone in the organization feels free to offer suggestions, ideas, and even criticism at every level. This encourages employees to openly express their opinions without fear of retaliation from management. The researchers also recommend that all cadres of staff should be involved in choices and issues that affect their performance since doing so will promote healthy organizational development, as well as the cordial relationship between management and workforce."

The use of technology has revolutionized all aspects of human communication. If properly implemented, technological advancements have significant potential to improve communication employment opportunities. transform Consequently, all staff members should key into the technological innovations provided by the University to aid effective communication. Apps like Microsoft Teams, Kaizala, and email address, will enable them be at abreast with the happenings within their institution. This should be backed up with trainings to enlighten them on the importance of technology for effective communication. As they learn the importance, adoption will be seamless.

In conclusion, this study was limited to BMU and UNIBEN, a higher learning institutions in Southern Nigeria. Therefore, it is advised that more research be done in other parts of the world with contexts that differ from the one being examined (colleges of Education, polytechnics, and conventional Universities). This would give a comprehensive picture of how efficient channels of communication are being used in educational institutions and provide the baseline information required for planning in learning institutions.

ETHICS APPROVAL AND CONSENT

Approval for this study was granted by the Institutional Ethics Review Committee, Bayelsa Medical University. Consent form describing the study was sent alongside the questionnaire to participants. Written informed consent was obtained from study participants.

AVAILABILITY OF DATA AND MATERIALS

The datasets used and/or analysed during the current study are available from the corresponding author on reasonable request.

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COMPETING INTERESTS

Authors have declared that no competing interests exist.

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