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Teacher Motivational Competence as Correlate of Perceived Outcome of Computer Studies Instruction in Secondary Schools in Rivers State, Nigeria

Chief James Michael Phillip

Lecturer, Department of Computer Science,
Ignatius Ajuru University of Education, Port Harcourt, Nigeria

Maduabuchukwu Orie

Principal Lecturer, Department of Computer & Robotic Education,
Federal College of Education (Technical) Omoku, Rivers State, Nigeria

Abstract:

This study investigated the correlation between teacher motivational competence and the perceived outcome of Computer Studies instruction in Secondary Schools in Rivers State. A correlational research design was adopted. The population for this study comprised 379 Computer Studies teachers and 222750 students of the government-owned senior secondary schools in Rivers State. The purposive sampling techniques were adopted in this study to obtain 379 Computer Studies teachers and 18950 students, making a total sample of 19329 respondents. The instrument used for data collection was a structured questionnaire. The reliability coefficient of the instrument was determined using the Cronbach Alpha method, with values of 0.66 and 0.79 obtained. Two research questions and one research hypothesis guided this research. Mean (\bar{x}), Standard Deviation (SD), and Pearson Product Moment Correlation (PPMC) was used to answer research questions.

In contrast, simple regression analysis and t-statistics were used to test the hypotheses of no significant relationship at a 0.5 level of significance. The study's findings revealed that the respondents agreed that teachers' motivational competence has a notable relationship with the outcome of Computer Studies instruction in Rivers State Secondary Schools. The hypothesis result also indicated a significant relationship between teacher motivational competence and the outcome of Computer Studies instruction in Secondary Schools in Rivers State.

Keywords: Teacher competence, motivation, correlation, instructional outcome

1. Introduction

According to Aloysius (2011), correlation is the process of comprising two sets of variables to determine their relationship having corresponding characteristics. Correlate is also considered a research process of measuring variables, understanding and accessing the statistical relationship between them (Aloysius, 2011). Correlation is the two variables or scores. The extent of the relationship is approached through the distributions of scores that represent the two variables. Correlational research is a non-experimental research method in which a researcher measures two variables and understands and assesses the statistical relationship between them with no influence from any extraneous variable. The correlation between two variables is shown through the correlation coefficient. A correlation coefficient is a statistical measure that calculates the relationship strength between two variables.

Teachers are responsible for operating the educational system and require adequate and efficient professional competencies (Selvi, 2006). Teachers need to improve knowledge and skills to enhance, improve and explore their teaching practices.

Bulajeva (2007) stated that competence is the knowledge, skills, and abilities an individual must possess in carrying out a task involving cognitive, affective, and psychomotor domains.

Competence is the knowledge, skills, and attitude a teacher must demonstrate for the process of teaching and learning. Some characteristics of competency are as follows:

- Competency consists of one or more skills whose mastery would enable the attainment of a goal,
- Competency is linked to all three domains under which performance can be assessed: knowledge, skills, and attitude.
- To possess a performance dimension, competencies are observable and demonstrable.
- According to Olga (1990), competencies are measurable.

The teacher occupies a central position with the responsibility of setting up learning opportunities, providing learning experiences, and utilizing relevant teaching skills and appropriate teaching techniques and media to bring learners into a face-to-face encounter with learning. According to Okoh (2008), a teacher is an individual who possesses specialized knowledge in a particular discipline that he/she acquired through a formal teacher education programme.

1.1. Instructional Competencies of a Teacher

This refers to the skills of the teacher in the teaching and learning process as well as the arrangement expertise. A professional computer science teacher must display many skills in teaching and learning activities, particularly in the classroom. Abie (2011) stated that using such skills also makes the teacher competent in his/her job performance, especially during teaching and learning. In addition, the teacher should be competent in various teaching and learning activities, such as classroom management and human relationship within and outside the school. Other teaching skills include preparation of lesson plans, motivation, communication, instructional resources development and utilization, questioning skills, and humanity services.

A teacher's major challenge is determining the objectives of lessons, which must be spelled out in the lesson plan. This is because the teacher must critically examine the curriculum, which was planned and prepared by different individuals. According to Abie (2011), the difficulty in determining the objective of the lesson stems from the fact that:

- Some people may plan the curriculum, among whom may not be the classroom teachers.
- The curriculum implementer is not a party to the plan for specific objectives;
- The classroom teacher is not a party to interpret and implement the curriculum in line with societal objectives which may not be stated in detail;
- The students who are to be taught differ from one another; and
- The instructional objectives to be formulated are expected to cover and operate the cognitive, affective, and psychomotor domains simultaneously (Abie, 2011).

The teacher is required to show professional skills of resourcefulness in order to implement the curriculum. To this end, a professional teacher should possess the following as a guide:

- Should tactically solicit the students' input to make the lesson objective both teacher and learner-centered.
- The lesson's objective must be clearly stated in specific terms to show the learning outcome or the expected change in students' behaviour after the session.
- Must be skillful in such a way that the student's culture, individuality, personal freedom, and general education are incorporated.

The success of the teaching and learning process also depends on the ability of the teacher to utilize relevant instructional materials to support teaching and learning. These materials are essential for effective teaching and learning because they help enrich, visualize, amplify, transmit and facilitate the observation of the learner. Wordu (2006) in Okoroma (2010) stated that instructional resources are used to catch and sustain learners' attention, concretize abstract and iconic experiences, stimulate and motivate learners, reinforce verbal messages, and create variety in presenting information, encourage active participation of learners, democratize and individualize learning.

1.2. Motivational Competence of a Computer Studies Teacher

Okoroma (2010) stated that human motivation is responsible for development in all spheres of life. Motivation has been identified as a prominent psychological characteristic of humans. Motivation is primarily concerned with; what energizes human behavior, what directs or channels such behavior, and how this behavior is maintained or sustained. Motivation is concerned with the needs or drives that influence human behaviour because such behavior is usually directed toward achieving some set goals. Therefore, motivation is the inner force that propels the individual into action. Motivation is one of the major functions of the teacher. The teacher should appreciate the fact that the motivation of the students will stimulate their interest in learning, as a highly motivated student will show great enthusiasm in the teaching and learning process.

According to Deeoco and Crawford (1994), Idoko (2001), and Michael (2014), motivation refers to those factors which increase and decrease the vigor of individual activities. Therefore, the teacher can motivate the learner by employing rewards and reinforcement, presenting a lesson, and ensuring learners' active participation.

The curriculum implementation stage of the education process is crucial in any educational programme because the success of any educational programme is determined by its implementation process. Offorma (1994) describes curriculum implementation as the translation of the curriculum plan into practice, with the joint efforts of teachers, learners, and school administrators. The curriculum implementation process entails interactions between the curriculum plan, teacher, learner, and learning environment (Agina, 2003). According to Dike (1998), curriculum implementation is concerned with what happens in the classroom. Curriculum implementation is the process of putting the various decisions made in the field trial stage of the curriculum development process into practice (Jeremiah, 2004). According to Mkpa (1987) in Michael (2014), curriculum implementation is the translation of the curriculum document into an operating curriculum by the combined efforts of the learner, teachers, and other concerned bodies. It is the execution of the curriculum document which manages putting into action the curriculum document. Jeremiah and Alamina (2007) noted that after the curriculum objectives, content, and learning experiences have been selected, organized, and the evaluation procedure is determined, what follows next is the curriculum implementation process.

1.3. Instructional Method in Computer Studies Teaching

Instructional Techniques in Computer Studies teaching involves the various instructional strategies adopted by the computer studies teacher and authorities involved in the teaching and learning of computer studies in schools. Instructional Techniques are also considered the effectiveness of teaching methods adopted by the computer education teacher in implementing the computer education curriculum. Instructional Techniques look at the effectiveness of the instructional techniques being adopted by the computer education teacher in the course of teaching. Instructional Techniques involve the decision that is related to what will be taught, how it will be organized for learning, and how learning will be assessed. It is necessary to identify what students and teachers do within the instructional setting for analytical purposes.

General models and families of teaching methods are guides for designing educational activities, environments, and experiences. Instructional Techniques or teaching methods depend on several factors such as the developmental level of students, goals, intent and objectives, teacher, content, and environment, including time, physical setting, and resources. The Instructional Techniques to be considered in the research are:

- Traditional-Based Instructional Techniques (TBIT)
- Computer-Based Instructional Techniques (CBIT)

The outcome is also considered an instructional achievement. Instructional achievements should be considered to be a multifaceted construct that comprises different domains of learning. Instructional achievement covers a wide variety of educational outcomes; the definition of instructional achievement depends on the indicators used in measuring it. Among the many criteria that indicate instructional outcome, there are very general indicators such as procedural and declarative knowledge acquired in an educational system, more curricular-based criteria such as grades or performance on an educational achievement test and performance on an educational achievement test, and cumulative indicators of academic achievement such as educational degrees and certificates.

- In achieving the outcome of computer studies teaching, it is essential to consider the teacher's factor in implementing the computer studies curriculum. The teacher's competence is of vital importance in the implementation process. As the teachers' competence has a significant influence on the achievement of the outcome.
- The outcome in Computer Studies refers to the instructional performance of Computer Studies teaching. In order to achieve the stated objective, there is a need for an evaluation process. Evaluation refers to the measurement of the program's effectiveness in bringing about desired behaviour changes in the learner, which means questioning the program's merit. The evaluation system refers to the various evaluation techniques adopted by the evaluator to assess the programme to ensure objectives are achieved. The outcome also considers the overall programme and implementation process, which anchors on achievement (outcome). The Outcome is dependent on Teacher Competence and Instructional Techniques (IT). It is essential to note the significance of Teacher and Instructional Techniques are the objectives to be achieved. The Nigerian educational system is faced with numerous challenges ranging from governance, lack of resources and personnel, and poor funding (Michael, 2014).

1.4. Statement of the Problem

Most secondary schools in Nigeria that teach computer studies still challenge teachers' competence in the implementation process. Further, computer studies programmes in our secondary school system are not strictly evaluated to ascertain full implementation of the programme, which poses a severe threat to the achievement of the objectives of the computer studies curriculum.

The researcher is unaware of any formal investigation embarked upon by the Rivers State Government and educational institutions that evaluate the computer studies programme and computer studies teacher competence in implementing the computer studies programme since its inception in the state. Teachers' competencies are not always ascertained in educational institutions. The non-evaluation of teachers' competencies in implementing the computer studies programme poses a severe challenge in ascertaining the instructional outcome of the programme.

There are observed cases of high failure rate and low-level knowledge and skills in some basic aspects of Computer Studies among Computer Studies students in tertiary institutions in Rivers State. Specifically, Computer studies teachers lack the required competencies to effectively implement the computer studies curriculum and evaluation of computer studies programmes in the schools. Establishing this empirically was, therefore, the task of this research. This research worries that the non-ascertainment of teacher competence and outcome in the implementation of computer studies curriculum in the state may negatively affect the achievement of the goals of computer studies programme in the state.

1.5. Purpose of the Study

This research investigates the correlation between teacher motivational competence and the perceived outcome of Computer Studies instruction in Secondary Schools in Rivers State. Specifically, this research sought to:

- Determine the relationship between the motivational competence of the Computer Studies teacher and the outcome of Computer studies in Secondary Schools in Rivers State.
- Determine the instructional outcome of Computer Studies in Secondary Schools in Rivers State.

1.6. Research Questions

The following research questions guided the study:

- What is the relationship between the motivational competence of the computer studies teacher and the outcome of Computer State in Secondary School in Rivers State?
- What is the instructional outcome of computer studies in Secondary Schools in Rivers State?

1.7. Research Hypotheses

The following null hypotheses guided this research. The null hypotheses were tested at a .05 level of significance:

- Ho₁: There is no significant relationship between computer Studies teacher motivational competence and the outcome of Computer Studies in Secondary Schools in Rivers State.

1.8. Research Method

The correlational research design was adopted in this research. The correlational research design was considered appropriate for this research following the description of correlational design by Aloysius (2011), as it measures the extent of the relationship between two variables. The present research involved collecting data with structured questionnaires from students and computer studies teachers of the selected senior secondary in Rivers State. This research covered the state-owned senior secondary schools in Rivers State. The population for this research comprised students and computer studies teachers of the state-owned Senior Secondary Schools in Rivers State. The sample for the study consists of 19329 respondents (379 teachers and 18950 Computer Studies Students). The sample size was statistically determined using 'purposive sampling techniques'. A researcher-designed structured questionnaire was used for data collection in this research. The data from the respondents were collected, and the Cronbach Alpha reliability test method was used with the following reliability coefficient (r) values of 0.66 and 0.70 obtained. The data collected through the questionnaires were analyzed using Mean(\bar{x}), Standard Deviation (SD), and Pearson Product Moment Correlation (PPMC) for the research questions. The hypotheses were tested using simple regression and t-statistics at a 0.05 level of significance. The information generated from this study would be of immense educational value to the Rivers State Government, Ministry of Education, School Administrators, Teachers, and Students.

2. Results

- Research Question One: What is the relationship between the motivational competence of the computer studies teacher and the outcome of computer studies in secondary schools in Rivers State?

S/N	Computer studies teacher motivational competence	VC	C	I	VI	Mean	SD	Remark
1.	The ability of the computer studies teacher to reinforce students in computer studies	6552	7709	2905	1207	3.07	0.88	Competent
2.	The ability of the computer studies teacher to arouse students' interest in learning computer studies	8141	6755	2945	532	3.22	0.82	Competent
3.	The ability of the computer studies teacher to reward students' performance in computer studies	956	3083	5808	8526	1.81	0.90	Incompetent
4.	The ability of the computer studies teacher to display good passive virtue in teaching computer studies	7880	5678	3650	1165	3.10	0.93	Competent
5.	The ability of the computer studies teacher to exhibit a good human relationship with students in teaching computer studies	7494	5423	3794	1662	3.02	0.99	Competent
6.	The ability of the computer studies teacher to award students' performance in computer studies	715	1448	12845	3365	1.97	0.65	Incompetent
7.	The ability of the computer studies teacher to exhibit innovation and creative skills in teaching computer studies	2922	6838	2159	6454	2.34	1.12	Incompetent
8.	The ability of the computer studies teacher to engage the students in practical computer lessons	9695	5484	2341	853	3.31	0.86	Competent

S/N	Computer studies teacher motivational competence	VC	C	I	VI	Mean	SD	Remark
9.	The ability of the computer studies teacher to use appropriate teaching methods in presenting computer lesson	6328	5746	5125	1174	2.94	0.94	Competent
10.	The ability of the computer studies teacher to present real-life specimens to computer studies lesson	1529	3366	5930	7548	1.94	0.96	Incompetent
11.	The ability of the computer studies teacher to use a computer in presenting a computer studies lesson	7439	7018	2561	1355	3.12	0.91	Competent
12.	The ability of the computer studies teacher to display good teaching morals such as friendliness and understanding in class	4746	8433	3833	1356	2.90	0.87	Competent
	Grand Mean	53896	64397	66981	35197	2.73	0.90	Competent

Table 1: Descriptive Statistics of Mean (x) and Standard Deviation (SD) on the Computer Studies Teacher Motivational Competence

Table 1 showed that the computer studies teachers are competent in their ability to reinforce students in computer studies (Mean=3.07, SD=0.88), arouse students' interest in learning computer studies (Mean=3.22, SD=0.82), display good passive virtue in teaching computer studies (Mean=3.10, SD=0.93), exhibit a good human relationship with students in teaching computer studies (Mean=3.02, SD=0.99), engage the students in practical computer lessons (Mean=3.31, SD=0.86), use appropriate teaching method in presenting computer lesson (Mean=2.94, SD=0.94), use computer in presenting computer studies lesson (Mean=3.12, SD=0.91) and display good teaching moral such as friendliness and understanding in class (Mean=2.90, SD=0.87). On the other hand, however, computer studies teachers are incompetent in rewarding students' performance in computer studies (Mean=1.81, SD=0.90), awarding students' performance in computer studies (Mean=1.97, SD=0.65), exhibiting innovation and creative skills in teaching computer studies (Mean=2.34, SD=1.12), presenting real-life specimen to computer studies lesson (Mean=1.94, SD=0.96).

Responses	X	Y	X ²	Y ²	XY
VC	53896	207990	2904778816	43259840100	6362702478
C	64397	58216	4146973609	3389102656	3748935752
I	66981	104210	4486454361	10859724100	6980090010
VI	35197	180774	1238828809	32679239076	6362702478
Total	220471	551190	12777035595	90187905932	28301557280
R	R Square	N	Sig.	Remark	
.452	.205	18373	0.000	significant	

Table 2: Summary of Pearson Product Moment Correlation (PPMC) on the Relationship between Motivational Competence of the Computer Studies Teacher and Outcome of Computer Studies in Secondary Schools in Rivers State
Predictors: (Constant), Motivational Competence

Table 2 above showed the coefficient relationship between motivational competence of the computer studies teacher and outcome studies in secondary schools in Rivers State is 0.452, while the R-squared value is 0.205 indicating the motivational competencies of the computer science teachers relate positively with outcome studies of computer science in Secondary schools in Rivers State. The table also showed that the motivational competencies of the computer science teachers account for only a 20.5% (0.205x100) relationship with outcome studies of computer science in Secondary schools in Rivers State.

- H_{01} : There is no significant relationship between the motivational competence of the computer studies teacher and the outcome of computer studies instruction in secondary schools in Rivers State.

ANOVA ^a								
Model		Sum of Squares		df	Mean Square	F	Sig.	
1	Regression	235420.527		1	235420.527	4725.697	.000 ^b	
	Residual	915189.903		18371	49.817			
	Total	1150610.430		18372				
a. Dependent Variable: Computer Study Outcome								
b. Predictors: (Constant), Motivational Competence								
Coefficients ^a								
Model		Unstandardized Coefficients		Standardized Coefficients	T	Sig.	95.0% Confidence Interval for B	
		B	Std. Error	Beta			Lower Bound	Upper Bound
1	(Constant)	44.738	.349		128.203	.000	44.054	45.422
	Motivational Competence	.977	.014	.452	68.744	.000	.949	1.005

Table 3: Summary of Regression Analysis on the Relationship between Motivational Competence of the Computer Studies Teacher and Outcome Studies in Secondary Schools in Rivers State

a. Dependent Variable: Computer Study Outcome

Part A in table 3, the F-statistic, shows that there was a significant relationship between the motivational competencies of the computer studies teachers and the outcome of computer studies in Secondary schools in Rivers State, $F_{1, 18371}=4725.697$, $p<.05$. Therefore, the null hypothesis three was rejected at 0.05 alpha level. Part C showed the regression line between the motivational competencies of the computer science teachers and outcome studies in Secondary schools in Rivers State. The regression equation $y=44.738+0.977x$ indicates that an increase in motivational competencies of the computer studies teachers will lead to an increase in computer studies' outcome studies in Rivers State secondary schools.

- Research Question Two: What is the outcome of Computer Studies instruction in secondary schools in Rivers State?

S/N	ITEMS	VC	C	I	V	Mean	SD	Remark
1.	The students' ability to operate a computer effectively	1206	2870	5801	8496	1.83	0.92	Incompetent
2.	Students' ability to set up (connect) a computer system	1130	3505	5072	8666	1.84	0.94	Incompetent
3.	The students' ability to boot a computer system	5201	7553	4229	1390	2.85	0.96	Competent
4.	The students' ability to classify computers	1805	3757	4140	8671	1.93	1.03	Incompetent
5.	The students' ability to use search engines	885	3443	14045	5669	1.52	0.96	Incompetent
6.	The students' ability to define word processing	1205	2871	4915	9382	2.85	1.02	Competent
7.	The students' ability to load and exit word processor	1876	5513	4465	6519	3.17	0.92	Competent
8.	The ability of the students to create a document in MS-Word	1206	2870	5801	8496	3.23	0.92	Competent
9.	The student's ability to create a file in MS-Word	1059	2983	4993	9338	3.20	0.95	Competent
10.	The student's ability to save a document in MS-Word	1527	2332	5521	8993	3.27	0.85	Competent
11.	The student's ability to retrieve files in MS-Word	318	1100	12948	4007	1.88	0.58	Incompetent
12.	The student's ability to load and exit spreadsheet packages (MS-Excel)	567	2773	9257	5776	1.90	0.76	Incompetent
13.	The student's ability to create a workbook in MS-Excel.	707	3893	6391	7382	1.89	0.87	Incompetent

14.	The student's ability to create a worksheet in MS-Excel	2696	2054	7954	5669	2.10	1.00	Incompetent
S/N	ITEMS	VC	C	I	V	Mean	SD	Remark
15.	The student's ability to save a worksheet in MS-Excel.	2309	2864	6814	6386	2.06	1.00	Incompetent
16.	The student's ability to edit a worksheet in MS-Excel.	986	1939	8806	6642	1.85	0.81	Incompetent
17.	The student's ability to explain computer programming.	567	2773	9257	5776	3.11	0.87	Competent
18.	The student's ability to write a BASIC computer programme	707	3893	6391	5669	1.50	1.00	Incompetent
19.	The student's ability to explain BASIC programming	1876	5220	4824	6453	2.14	1.01	Incompetent
20.	The student's ability to state simple basic statement	1450	3088	5595	8240	1.88	0.96	Incompetent
21.	The student's ability to explain graphic packages	564	3509	9768	4532	2.94	1.00	Competent
22.	The student's ability to explain ICT	2309	2864	6814	6386	3.15	0.81	Competent
23.	The student's ability to use ICT gadgets	986	1939	8806	6642	2.74	0.95	Competent
24.	The student's ability to explain the internet	2995	2413	9400	3565	2.69	1.14	Competent
25.	The ability of the student to state the various types of network (LAN, MAN, WAN)	3312	3752	5889	5420	2.73	1.07	Competent
26.	The ability of the students to explain a Logic gate and circuit	6453	4824	5220	1876	2.86	1.01	Incompetent
27.	The ability of the student to construct a Truth Table for OR, AND, and NOT	8240	5595	3088	1450	3.12	0.96	Incompetent
28.	The ability of the student to define a computer virus	1876	5220	4824	6453	2.86	1.01	Competent
29.	The ability of the student to state various sources of viruses	1099	3400	8481	5393	2.01	0.85	Incompetent
30.	The ability of the student to define an anti-virus	1099	3400	8481	5393	2.99	0.85	Competent
	Grand Mean	58216	104210	207990	180774	2.52	0.93	Competent

Table 4: Descriptive Statistics of Mean (\bar{X}) and Standard Deviation (SD) on the Outcome of Computer Studies Instruction

Table 13 showed that the computer studies students are competent in their ability to boot a computer system (Mean=2.85, SD=0.96), operate a computer effectively (Mean=3.41, SD=1.07), define word processing (Mean=2.85, SD=1.02), load and exit word processor (Mean=3.17, SD=0.92), create document in MS-Word (Mean=3.23, SD=0.92), create file in MS-Word (Mean=3.20, SD=0.95), save document in MS-Word (Mean=3.27, SD=0.85), explain graphic packages (Mean=2.94, SD=1.00), explain ICT (Mean=3.15, SD=0.81), use ICT gadgets (Mean=2.74, SD=0.95), internet (Mean=2.69, SD=1.14), state the various types of network (LAN, MAN, WAN) (Mean=2.73, SD=1.07), explain a Logic gate and circuit (Mean=2.96, SD=0.87), construct a Truth Table for OR, AND & NOT (Mean=2.98, SD=0.86), define a computer virus (Mean=2.86, SD=1.01) and student to state various sources of viruses (Mean=3.12, SD=0.96). However, the result showed that the computer studies students are incompetent in setting up (connect) a computer system (Mean=1.83, SD=0.92), classify computers (Mean=1.93, SD=1.03), use search engines (Mean=1.52, SD=0.96), retrieve files in MS-Word (Mean=1.88, SD=0.58), load and exit spreadsheet package (MS-Excel) (Mean=1.90, SD=0.76), create a workbook in MS-Excel (Mean=1.89, SD=0.87), create a worksheet in MS-Excel (Mean=2.10, SD=1.00), save a worksheet in MS-Excel (Mean=2.06, SD=1.00), edit a worksheet in MS-Excel (Mean=1.86, SD=0.81), example basic programming (Mean=2.14, SD=1.01), state simple basic statement (Mean=1.88, SD=0.96), explain a Logic gate and circuit (Mean=2.12, SD=0.96), construct a Truth Table for OR, AND and NOT (Mean=1.86, SD=1.01) and state various sources of viruses (Mean=2.01, SD=0.85).

3. Summary of Findings

- There is a positive relationship between the motivational competence of the computer studies teacher and outcome studies in secondary schools in Rivers State. The relationship accounts for about 20.5%.
- There is a significant relationship between the motivational competence of the computer studies teacher and the outcome of computer studies in secondary schools in Rivers State.

- There is a positive relationship between the evaluation competence of the computer studies teacher and the outcome of computer studies in secondary schools in Rivers State. The relationship accounts for about 35.8%.

4. Discussion of Findings

Motivational Competence of the computer studies teacher implements the computer studies curriculum in secondary schools in Rivers State. Research question one sought to determine the relationship between the motivational competence of the computer studies teacher and the outcome of computer studies instruction in secondary schools in Rivers State.

The finding of this research revealed that the respondents agreed that there is a significant relationship between computer studies teacher motivational competence and the outcome of computer studies in secondary school in Rivers State.

This research revealed a significant relationship between the motivational competence of the computer studies teacher and the outcome of computer studies in secondary schools in Rivers State. The study revealed that the use of motivational skills in lesson presentation has an influence on the outcome of computer studies instruction.

5. Conclusion

Teacher competence is very important in achieving an instructional outcome in computer studies in secondary schools in Rivers State. The motivational competence of the computer studies teachers influences the outcome of computer studies in secondary schools in Rivers State. There is a significant relationship between Computer Studies teacher competence and computer studies outcome in Rivers State secondary schools. Improving teachers' competence in teaching computer studies will also enhance the outcome of Computer Studies in Secondary Schools in Rivers State. Consequently, it could be observed from the findings that teachers' competence is vital in achieving the outcome of computer studies in secondary schools in Rivers State. The improvement in teachers' competence will positively affect the achievement of the instructional outcome of computer studies in secondary schools in Rivers State.

6. Recommendations

Based on the findings of this research, the researcher makes the following recommendations:

- Computer studies teachers should be trained and retrained on the essential competencies required of their duty
- The ministry of education should conduct seminars and workshops to address issues ranging from using ICT, computers, and other technological aids in teaching and learning computer studies.
- Students should be made to know the benefits of computer studies and other computer career opportunities in the society.
- Through the state ministry of education, the government should provide hardware, software facilities, and computer laboratories to support teachers' competencies in teaching computer studies.

7. References

- i. Abie, S. (2011). *The concept and nature of methodology, micro-teaching/learning, and teacher education*. Nissi Publishing Company.
- ii. Adomi, E. E., & Kpangban, E. (2010). Application of ICTs in Nigerian secondary schools. *Library philosophy and practice*, 1.
- iii. Agina-Obu, T. N. (2006). Fundamentals of curriculum theory and development, Edik Integrated Services.
- iv. Alio, A. N. (2008). *Fundamentals of education research*. Sumireen Nig Ltd.
- v. Amaele, S. (2000). *Moral and religious values in Nigeria education. (Issues, problems, and prospects)*. Harey Publication Coy.
- vi. Bandura, A. (2006). *Social foundation of thoughts and action: A social conjunctive theory*. Prentice-Hall.
- vii. Barger, A., & Byrd, K. (2011). Motivation and computer-based instructional design. *Journal of Cross-Disciplinary Perspectives in Education*, 4(1), 1-9.
- viii. Basturk, R. (2005). The effectiveness of computer-assisted instruction in teaching introductory statistics. *Journal of Educational Technology & Society*, 8(2), 170-178.
- ix. Bhalla, J. (2014). Computer competence of school teachers. *Journal of Humanities and Social Science*, 19(1), 69-80.
- x. Biggs, J., & Tang, C. (2011). *Teaching for quality learning at university*. McGraw-Hill Education.
- xi. Bukaliya, R., & Mubika, A. K. (2011). Teacher competence in ICT: implications for computer education in Zimbabwean secondary schools. *International Journal of Social Sciences & Education*, 1(4).
- xii. Bulajeva, T. (2003). Teacher professional development in the context of school reform. *Journal of Teacher Education and Training*, 2(3), 39-45.
- xiii. Cotton, K. (1991). *Teaching thinking skills*. Northwest Regional Educational Laboratory, School Improvement Program. <http://www.nwrel.org/scpd/sirs/6/cu11.html>
- xiv. Dececco, J. P. and Grawford, W. R. (1994). *The philosophy of learning and instruction*. Prentice-Hall.
- xv. Federal Republic of Nigeria (2004). *National policy on education (4th Ed)*. NERDC Press.
- xvi. Federal Republic of Nigeria (2006). Government in action, <http://www.nigeriafirst.org/article2090.shtm/>
- xvii. Federal Republic of Nigeria (2013). *National policy on education*. 4th ed, Nigeria Educational Research and Development Council (NERDC).
- xviii. Gupta, K. (2011). *A practical guide to needs assessment*. John Wiley & Sons.

- xix. Idoko, C. E. (2001). Evaluation of the implementation of the primary education science core curriculum. *Unpublished Ph. D Thesis Sub.* Department of Science Education University of Nigeria, Nsukka.
- xx. Iloputaite, E. C., Madnewesi, B. U. & Igbo, R. C. (2010). *Issues and challenges in Nigerian education*. West & Solomon Cooperate Ideas Ltd.
- xxi. Ivowi, U. M. O. (2008). *Curriculum and the total person*. Paper presented at 21st annual conference of curriculum organization of Nigeria. Abuja.
- xxii. Joireman, J., & Abbott, M. L. (2001). *The relationships between the Iowa test of basic skills and the Washington assessment of student learning in the state of Washington*. Technical Report.
- xxiii. Khandai, H. K., & Mathur, A. (2013). *The teaching of computer science*. APH Publishing Corporation.
- xxiv. Mangal, S. K. (2004). *Advanced educational psychology, nature, and theories of learning*. PHI Learning Private Limited.
- xxv. Michael, C. P. (2014). Evaluation of the implementation of computer education curriculum (CEC) for primary schools in Rivers state, *Unpublished M.Sc. Thesis*, Enugu State University of Science and Technology, Enugu.
- xxvi. Micheal, C. P. (2008). *Computer for administrative and business studies (CABS)*. Classic Printing.
- xxvii. Okwudishu, C. H. (2005). Awareness and use of information and communication technology (ICT) among village secondary school teachers in Aniocha South Local Government Area of Delta State. *Abraka: Delta State University Unpublished B.Sc. (LIS) Project*.
- xxviii. Olga, N. (1990). *The competence of the modern teacher*. Demivel University Almaty, Kazakhstan.
- xxix. Ozurumba, C. N., & Ebuara, V. O. (2013). An appraisal of education policy implementation and challenge of leadership in Nigerian universities. *Journal of Research and Method in Education*, 3(6), 31-35.
- xxx. Peklaj, C. (2015). Teacher competencies through the prism of educational research. *Centre for Educational Policy Studies Journal*, 5(3), 183-204. <https://doi.org/10.26529/cepsj.134>
- xxxi. Samuel, J., & Alamina, J. (2007). *Fundamental principles of curriculum process and planning*. Career Publishers Tracy.
- xxxii. Seek, B. and Glasgow, Z. (1990). *Exercise on instructional technology*. Merrill Publishing Co.
- xxxiii. Selvi, K. (2010). Teachers' competencies. *Cultural International Journal of Philosophy of Culture and Axiology*, 7(1), 167-175. <https://doi.org/10.5840/cultura20107133>
- xxxiv. Singh, Y. K. & Nath, R. (2008). *Teaching of computer science*, APH Publishing Corporation,
- xxxv. Vankouwenberg, I (2020). Maslow, monkeys, and motivation theory organization. *Journal of Social Psychology*, 4(3), 355-373.
- xxxvi. Vitanova, V., Atanasova-Pachemska, T., Iliev, D., & Pachemska, S. (2015). Factors affecting the development of ICT competencies of teachers in primary schools. *Procedia-Social and Behavioural Sciences*, 191, 1087-1094. Doi: 10.1016/j.sbspro.2015.04.344
- xxxvii. Wims, P., & Lawler, M. (2007). Investing in ICTs in educational institutions in developing countries: An evaluation of their impact in Kenya. *International Journal of Education and Development using ICT*, 3(1), 5-22.
- xxxviii. Yusuf, M. O. (2005). Information and communication technology and education: Analysing the Nigerian national policy for information technology. *International Education Journal*, 6(3), 316-321.
- xxxix. Yusuf, M. O., & Balogun, M. R. (2011). Student-teachers' competence and attitude towards Information and communication technology: A case study in a Nigerian university. *Contemporary Educational Technology*, 2(1), 18-36.