

**THE RELATIONSHIP BETWEEN SMARTPHONE USE IN GOOGLE AND 3<sup>RD</sup>  
GRADING 3I'S GENERAL AVERAGE ON GRADE 12 ACADEMIC STUDENTS  
AT FRANSISCO RAMOS NATIONAL HIGH SCHOOL.**

**Christal Mae Balaso**

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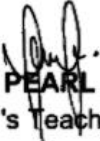
**Khrystille Tenerife**

**A Research Paper Submitted to the Faculty of the Department of Education,  
Francisco Ramos National High School-Senior High School, In Partial Fulfillment  
of the Requirements of the Subject**

**Inquiries, Investigations and Immersions**

**May 2024**

In partial fulfillment of the requirements in Inquiries, Investigations, and Immersions this research paper entitled "THE RELATIONSHIP BETWEEN SMARTPHONE USE IN GOOGLE AND 3<sup>RD</sup> GRADING 3I'S GENERAL AVERAGE ON GRADE 12 ACADEMIC STUDENTS AT FRANCISCO RAMOS NATIONAL HIGH SCHOOL.", prepared and submitted by Christal Balaso, Earl Ligutom, and Khrystille Tenerife are hereby recommended for Oral Examination.

  
**CASSANDHRA PEARL A. EMPERADO**

31's Teacher

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In partial fulfillment of the requirements in Inquiries, Investigations, and Immersions, and on the recommendation of the Oral Examination Panelists, this research paper is presented by Christal Balaso, Earl Ligutom, and Khrystille Tenerife on May 13, 2024 hereby:

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**MA. HELEN S. JARCIA**  
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## RESEARCH ABSTRACT

The surge in smartphone usage among today's students has significantly impacted academic performance, leading to decreased grades, reduced social interaction, and sleep disturbances. This trend is particularly evident among Grade 12 students at Francisco Ramos National High School. To address these challenges, a study is underway to explore strategies for mitigating the negative consequences of smartphone usage on academic achievement.

To support students in maintaining their academic performance while responsibly using smartphones, various interventions are being considered. These include setting boundaries on smartphone use, promoting effective time management skills, and encouraging healthy tech habits.

Preliminary findings from the study suggest a strong correlation between smartphone usage and academic performance, highlighting the urgency for proactive interventions by schools and policymakers. By promoting awareness of healthy smartphone habits and providing guidance on responsible usage, educators can play a vital role in ensuring that students harness technology effectively while prioritizing their academic success and overall well-being.

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## Chapter 1

### Background of the Study

Nowadays the smartphone usage has incredibly increase in this modern generation that changes our way of living. There are some students using smartphone that affect their academic performance such as, grades, test scores, and overall academic achievement. However, smartphone lead to negative such as decreased face to face social interaction, increased screen time leading sedentary behavior, sleep disturbances and cause depression. There are many ways to avoid this negative effects such as limit on using your phones,set some boundaries and create a time management that can reduce the effect on using phones on your academic achievement.

A substantial body of work has studied the correlation between smartphone use and academic success. However, most research measured smartphone use with self-report surveys rather than objective phone logs. However, such self-reported measures can be subjective and biased, especially in problematic use cases (for instance via experienced time distortions on the smartphone; see Lin, Lin, et al., 2015; Montag et al., 2015).

The aim of this study is to find ways to reduce of usages smartphone that can affect the academic achievement of the student.

### Statement of the Problem

This aimed to investigate the impact of smartphone usage on the academic achievement of Grade 12 academic students in Francisco Ramos

National High School. The study will be conducted during the school year 2023-2024.

Specifically, it aims to answer the following queries:

1. What is the average of hours per day that the grade 12 academic students spend on smartphone?
2. How does smartphone usage affect the academic achievements of the grade 12 academic students?
3. Is there a relationship between smartphone usage and academic achievements of grade 12 academic students?

#### Hypotheses

The following hypotheses shall be tested using the 0.05 level of significance:

**Null Hypothesis:** There is no relationship between smartphone usage and academic achievements of grade 12 academic students.

**Alternative Hypothesis:** There is a relationship between smartphone usage and academic achievements of grade 12 academic students.

#### Scope and Delimitations of the Study

This study focused on determining the impact of smartphone usage and the academic achievements of grade 12 students during the set period. Which will be investigated on Francisco Ramos National High School, 2023-2024.

### Significance of the Study

This research will provide the relationship between the independent and the dependent variable . Through this research, a person can gain a better understanding of smartphone use and how can this affect their academic average grades in 3i's. The research will also investigate the connection between smartphone use and the academic average grade on 3i's to determine how they are related. It creates possibility of discovering new relationship to have an existing connections. The process helps to discover more about the hour spent and the average grades of the students in 3i's.

### Definition of Terms

The following terms will be used extensively in this study and shall be taken according to the definition given below:

**Interplay.** Refers to the dynamic interaction or relationship between two or more Things.

**Sedentary behavior.** A term that determine an activities with minimal physical activity.

**Sleep disturbance.** Use in determining the sleep disturbance refers to disruption in normal pattern.

**Relationship.** Use in determining interrelated connection between the calories intake of a person daily and the body mass index.

## Chapter 2

### Review of Related Literature

This chapter reviews the literature related to the impact of smartphone usage on the academic achievements of grade 12 students in Francisco Ramos national high school which will provide bases for the interpretation of the data that shall be gathered later.

According to Chathurangaa & Jaysundara (2020) states the impact of smartphone usage on academic performance. They state that advancements technologies have brought for versatile smartphones which facilitate mobile learning and improve access to education resources although there is extensive global research on the use of smartphone and it's impact on academic performance.

Meehyun and Heoncheol(2020) state the Relationship between adolescent using smartphones and patterns, achievements,goals and academic achievements.Accordingly,(Meeyun& Heoncheol,2020)The study delves into the specific ways adolescents utilize smartphones, examining how these usage patterns are connected to their levels of self- control, their ability to achieve personal goals, and their academic performance. It likely involves surveys, interviews, or observations to gather data on smartphone usage habits and their impact on various aspects of teenagers' lives.

According to (Faheem & Jawad,2021) state that the impact of smartphone usage on the learning behavior and academic performance of

students: empirical evidence from Pakistan. Mobile phone devices are not communication device anymore; they include a variety of features and function that were possible years ago. The several results show the positive and negative effect of smartphone consumption on the academic performance.

Kelebogile and Omphile (2022) state that about the advance in human computer interaction. Advance in human computer interaction. Accordingly, (Kelebogile & Omphile, 2022) state the widespread use of smartphone phone among college students has sparked interest about the impact on their academic performance however, smartphone use may leads to poorer grades due to distractions like social media and other platforms that cause a negative impact on their academic performance.

Ngozi Oblilor(2022) state that mobile phone usage and academic performance among secondary school students in government technical college, Ossomala Anambra state, Nigeria. Use of smartphone that lead the impact on their academic performance included the various country of Nigeria. They found that smartphone offer some benefits that may help to access an information...( Ngozi Oblilor,( 2022).

Jen and Chia (2022)state the The impact of smartphone use on learning effectiveness: A case study of primary school students.Accordingly (Jen&Chia,2022)This study examines the influence of mobile technologies on learning, enabling educational activities to occur at any time and place. Despite the impact of smartphones on learning, limited research has explored their dual

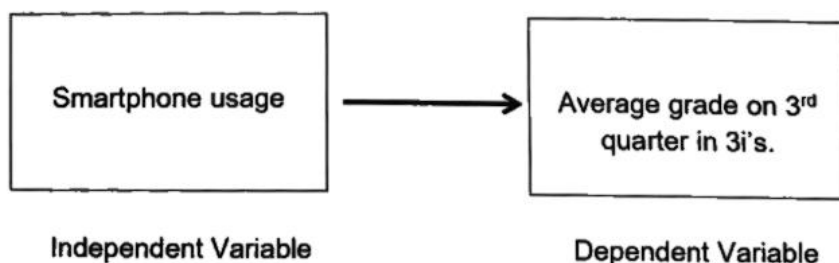
role in both learning and socializing. This research aims to fill this gap by investigating the relationship between smartphone usage and learning outcomes among individuals in this age group.

Jose et al.(2023) discussed that Smartphone Usage Towards Learning Behavior and Academic Performance of Accountancy, Business, and Management Students of Tacurong National High School. Today's generation ... (Jose et al., 2023). This focusing on how technology usage, particularly for novelty seeking and investigation the correlation between smartphone usage that emphasize the addictive nature of excessive of smartphone and detrimental the effects.

Based on the review of related literature, smartphone usage has incredibly increase in this modern generation this may find a clear determination of the relationship between independent and dependent variables. Hence, this study is proposed to focus on the relationship of variable 1 and variable 2.

### Conceptual Framework

The conceptual framework of the study in shown in Figure 1.



This presents the focused on the variables of the study which is the impact of smartphone usage on the academic achievement of Grade 12 academic students at Francisco Ramos National High School.

This conceptual framework illustrated the complex interplay between smartphone usage and academic achievements among grade 12 academic students. It highlights the influence of variable such as frequency of smartphone use, study habits, academic performance metrics, social interaction, screen time, sleep quality and psychological well-being. Though a flow chart and accompanying narrative, the framework provides a comprehensive overview of the factors impacting the research topic and guide the formulation of hypothesis and research methodology.

## Chapter 3

### Research Methodology

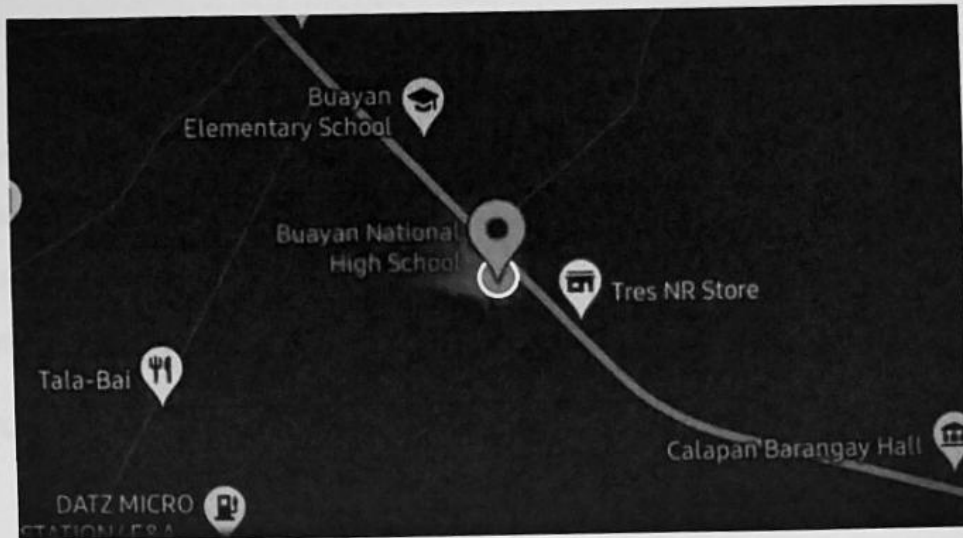
This chapter presents the research methods of the study. It includes discussion on the research design and research methods covering the research environment, research subjects, sampling techniques, instrumentation, data gathering techniques, and statistical treatment.

#### Research Design

This study was made by the means of quantitative methods of researchers. The researcher will attempted to get the relationship between smartphone usage and academic achievements of grade 12 academic students at Francisco Ramos National High School. A correlational research study uses non-experimental method where the measurement of two variables occurs. This method can be time- consuming process. But the strength of this design is the researchers could observe participants in a close environment because it doesn't matter where nor how the variables get measured. Researchers can determine the direction and strength of each relationship.

#### Research Locale

With the use of heuristic approach the researchers target population is 76 among the grade 12 academic students. Within Francisco Ramos National High School.



### Research Respondents

The respondents of this study were the grade 12 academic students in Francisco Ramos National High School. The researchers listed all the units in selecting respondents 20 in Faith, 30 in Love, and 26 in Wisdom in total of 76 respondents.

### Sampling Techniques

The methods that were utilized where straightforward random sampling and researcher selection, in which the researchers selected \*the individuals who would be eligible to participate. According to Lohr, S.L (2019). Sampling: design and analysis. Write each identity on a slip of paper, place them in a fishbowl or container, mix them thoroughly, and randomly draw out the required number of slip.

## Instruments

The research's instruments is questionnaire using a questionnaire in research study. Where it will indicate the relationship between smartphone usage and academic achievements. Helpful it lets the researchers to collect data, analyse it easily, ask everyone the same question, get detailed answers, and understand what the participants think.

## Data Gathering Procedure

The researcher's will gather the data by distributing a survey questionnaire. The participants typically answer a questionnaire by reading each question and providing their responses based on the options provided or by writing their answer in close ended questions. The method of answering depends on how the questionnaire is administered and the instructions provided to the participants.

## Statistical Treatment

The gathered data from the observation by the researchers were statistically analyzed with the data requirements of the study. The participants were statistically analyzed with the data instrument.

To know if there is a correlation between the between the independent and dependent variables Person Product Moment of Correlation Coefficient was utilized with 0.05 level of significance.

## Chapter 4

### Presentation, Analysis and Interpretation of Data

This chapter presents the results, the analysis and interpretation of data that was gathered from the observation checklists that given to the selected participants. The data were presented in tables, and graphs form in accordance to the specific research problem that was posited on the statement of the problem.

Table 1. Spending hours of students on smartphone

No. of hours	Frequency	Percentage	Rank
< 1hr	9	11.84%	1
1-5hrs	26	34.21%	2
6-10hrs	22	28.95%	3
11-15hrs	11	14.47%	4
16-20hrs	8	10.53%	5
Total		100%	

Table 1. This shows the outline how students allocates their time for a particular activity across five brackets: less than 1 hour ,1-5 hours, 6-10 hours,11-15 hours ,and 16-20 hours. And shows that 26 students falls in the bracket of 1-5 hours. In addition , the percentage column gives a clear structure of the proportion of students in each time category relative to the total. Hence, the rank 5 shows that there are 8 students spending their time on smartphone to

16-20 hours. In summary, the table highlighted the prevalence of certain time range over others.

Table 2. The Academic grades of students in 3i's

Rank	General Average	Frequency	Percentage
1	80-84	20	26.32%
2	85-89	20	26.32%
3	90-100	36	47.37%
Total		100	100%

Grading Scale:

80-84 Satisfactory

85-89 Very Satisfactory

90-100 Outstanding

Table 2. Shows the academic grades of students in 3i's. Out of 104 students, 20 received a grade of 80-84 (Satisfactory), 36 received 85-89 (Very Satisfactory), and the majority, 48 students, earned 90-100 (Outstanding). This indicates a strong performance overall, with a significant portion of students achieving Outstanding grades.

## Chapter 5

### Summary of Findings, Conclusion/s and Recommendations

This chapter contains the research summary, conclusions and recommendations of the whole study. The findings of the study is written on the summary of findings. Generalizations and other interference would be seen on the conclusion while the recommendations of the researchers to the beneficiaries of this study can also be seen on this chapter. Generally, this chapter aims to cover-up the end result of the study.

#### Summary of Findings

The objective of this study is to assess the relationship between calories and body mass index of a person. It focuses on monitoring 20 participants about all the foods they consume and sum it all up after a week.

1. What is the average of hours per day that the grade 12 academic students spend on smartphone?

The grade 12 academic students spend hours per day on smartphones, with 34.21% percent spending 1-5 hours.

2. How does smartphone usage affect the academic achievements of the grade 12 academic students?

It affects the academic achievements of grade 12 academic students because based on our 76 respondents and our survey questionnaire that has been conducted 20 frequency with 26.32% percent was affected.

3. Is there a relationship between smartphone usage and academic achievements of grade 12 academic students?

Based on the research findings, it appears that there is a positive correlation between smartphone use and academic achievements. It means that even if they use smartphone they still achieved an academic achievements. In table 4 it shows the general average, frequency, and percentage. Also both 80-84 and 85-89 has the same frequency and percentage and 90-100 had 36 frequency with the percentage of 47.37%.

#### Conclusion/s

In conclusion, the findings of this research study suggest that there is a moderately strong correlation between smartphone usage and academic. It is statistically significant. There is a consistent relationship between the academic achievements and smartphone. Therefore, schools and policymakers need to help students use smartphones better to keep their grades from dropping.

#### Recommendations

Based on the findings, the researcher endorses the following recommendations:

In future, this can help the future researchers to explore about the relationship between smartphone usage on the academic achievement of grade 12 students. In addition, they can add more variables favorable to the topic in order to examine the overall all relationship between smartphone usage and academic achievement.

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<https://www.researchgate.net/publication/372400108> Mobile Phone Usage and Academic Performance among S

## Appendix A

April 12, 2024  
Ma. Helen S. Jarcia  
School Principal  
Francisco Ramos National High School

Dear Ma'am,

Greetings of peace!

In partial fulfillment of our requirements for our subject 3I's (Inquiries, Investigation and Immersion), we grade 12 student in section of 12 Love in Francisco Ramos National High School formerly Buayan National High School. Namely, Christal Balaso, Earl Ligutom, and Khrystille Tenerife, would like to ask formally for a permission to conduct a research study entitled "The Relationship Between Smartphone use in google and 3<sup>rd</sup> grading 3I'S general average on grade 12 academic students at Francisco Ramos National High School.

The purpose of this study is to determine the relationship between the smartphone use in google and 3<sup>rd</sup> grading 3I'S general average on grade 12 students. The researcher addresses the issues by conducting this study with the research methodology survey questionnaire and analyze the data if the two variables has relationship. Rest assured that the data that will be gathered will remain confident and to be used for academic purposes only.

We believe that you are with us to finish the requirements for us to comply for our subject. Thank you for your time and attention to this matter. Your approval to conduct this study will be greatly and highly appreciated.

Recommending Approval:

  
**CASSANDHRA PEARL A. EMPERADO**  
Teacher

Approved by:

  
**MA. HELEN S. JARCIA**  
School Principal

## Appendix B

THE RELATIONSHIP BETWEEN SMARTPHONE USE in GOOGLE AND 3<sup>RD</sup>  
GRADING 3I'S GENERAL AVERAGE ON GRADE 12 ACADEMIC STUDENTS  
AT FRANSISCO RAMOS NATIONAL HIGH SCHOOL.

The researcher used questionnaire research instrument. Please read each statement carefully and select the option that best represent your experience.

Name: second life ranker

Grade & Section: \_\_\_\_\_

Sex: Male  Female

Age: \_\_\_\_\_

1. How many hours per day do you spend on your smartphone?

Less than 1hr  1-5hrs  6-1hrs  11-15hrs  16-20hrs

2. How frequently do you use your smartphone for academic purposes?

Never  Rarely  Sometimes  Often  Always

3. How often does smartphone usage distract you from academic task?

Never  Rarely  Sometimes  Often  Always

4. Do you believe reducing smartphone usage would improve your academic performance?

Yes  No  Maybe  Never

5. What was your grade in the 3i's on 3<sup>rd</sup> quarter? \_\_\_\_\_

## Curriculum Vitae

Name : Christal Mae D. Balaso  
Date of Birth : May 11 ,2006  
Place of Birth : Dipala, Kabasalan, Zamboanga, Sibugay



Present Address : Dipala, Kabasalan, Zamboanga Sibugay

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Father : Gloria D. Balaso  
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Junior High School (School) : Francisco Ramos National High School  
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(Month & year graduated) :

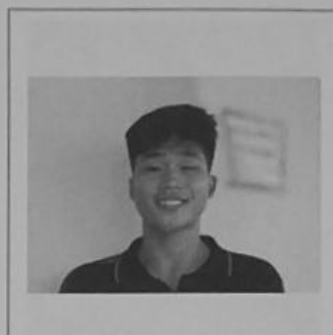
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## Curriculum Vitae

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Dalia D. Tenerife  
Mother :



### Educational Background

Senior High School (School) : Francisco Ramos National High School  
(School Address) : Conception, Buayan Kabasalan  
Zamboanga Sibugay  
(Strand/Track) : Humanities and social science (HUMSS)

Junior High School (School) : Francisco Ramos National High School  
(School Address) : Conception, Buayan Kabasalan  
Zamboanga Sibugay  
(Month & year graduated) :

Elementary (School) : Batu Elementary School  
(School Address) : Batu, Siay Zamboanga Sibugay  
(Month & year graduated) : 2017-2018