



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

**MEASURING THE WORD PROCESSING KNOWLEDGE IN MICROSOFT WORD
THROUGH SELF-ASSESSMENT AMONG GRADE 11 INFORMATION AND
COMMUNICATION TECHNOLOGY STUDENTS IN MEYCAUAYAN NATIONAL
HIGH SCHOOL ACADEMIC YEAR 2024-2025**

A Research Presented to

Senior High School Department

Meycauayan National High School

Bulacan

In Partial Fulfillment

of the Requirement for the Subject

Practical Research II

12 - ICT BABBAGE

(Information and Communication Technology Strand)

By:

JAY ANN G. BAEI
LORENCE GABRIEL C. GABRIEL
ANDREI JOHN DG. NAVARRO
IVY JANNELLE L. SANDOVAL
ALEXIS MCGRAYE C. DE HONOR

NOVEMBER 2024



Address:Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address:meycauayannhs@gmail.com/300757.meyc@deped.gov.ph



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

TABLE OF CONTENTS

TABLE OF CONTENT.....	i
ACKNOWLEDGEMENT	ii
ABSTRACT	iii
INTRODUCTION	1
Introduction	1
Statement of the Problem	2
Significance of the Study	3
Scope and Delimitation	3
METHODOLOGY	4
Research Design	4
Population and Sample	4
Research Instrument	4
Data Collection	5
Data Analysis	6
RESULTS	8
DISCUSSION	14
Conclusion	14
Recommendation	15
References	16
Appendices	18
Curriculum Vitae.....	22



Address:Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address:meycauayannhs@gmail.com/300757.meyc@deped.gov.ph



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

ACKNOWLEDGEMENT

First of all, we want to thank God for guiding us nonstop throughout the study. He answered all our prayers, as he knows all our efforts. He supports us emotionally and physically.

We would also like to express our sincere gratitude to our Practical Research II teacher, Sir Jerome Pura for his guidance and support. He has greatly helped us to make this research paper. He taught us all the knowledge he has for us to be able to make a good research paper. And we would like to thank him for everything he has done for us. We're also thankful to Ma'am Jona Quinto, our Filipino Research Teacher, who has also helped us a lot. She gave us advice and checked some details on our paper.

We're also thankful for the other professionals who helped us validate our research questionnaires, Sir Elger David and Ma'am Sharmaine Mendoza. Their validations and suggestions were of big help in order for us to create good survey questionnaires. We wouldn't have made it this far without professional teachers in Meycauayan National High School helping us, especially our Research teachers.

We also want to thank our classmates who have supported us even though they also have their things and papers to do. Their support, cheers and goodlucks are part of the completion of this research. They greatly helped us.

In addition, we're extremely grateful to our parents and friends who who also support us nonstop. They didn't fail to give our needs such as our financial needs. They gave their support and goodlucks to us. We're thankful for each and everyone. There are people who helped us that weren't mentioned but their help were greatly appreciated by us and we won't ever forget the help we received while doing this research.



Address:Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address:meycauayannhs@gmail.com/300757.meyc@deped.gov.ph



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

ABSTRACT

As technology advances, the knowledge on how to use word processors become not only helpful but increasingly needed, particularly in educational institutions where students must submit assignments, reports, and projects in digital format. The research gap is that there were no previous studies that measured the word processing knowledge in Microsoft Word of Grade 11 Information and Communication Technology (ICT) students in Meycauayan National High School. Assessing their knowledge is critical since they just finished Junior High School and are new to the strand. For Information and Communication Technology (ICT) students, learning word processing, particularly with Microsoft Word, is essential because it is an important component of their education and future job options. The main objective of this research is to measure the level of knowledge in word processing of Grade 11 Information and Communication Technology Students at Meycauayan National High School. This study used a descriptive cross-sectional design since no variables are compared. This study has a population of 131 Grade 11 ICT students and got 98 sample size but got to surveyed 100 respondents. The researchers gathered data online through Google Forms survey and the students self-assessed their knowledge. The study concludes that 83% of the Grade 11 ICT Students are proficient in using Microsoft Word for word processing. However, there are top three tabs where students needs improvement, namely Layout, Design and File. Therefore, it is recommended that teachers should assess students' Microsoft Word knowledge gaps, encourage on-site word processing activities and researchers are to create online tutorials for further learning.



Address:Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address:meycauayannhs@gmail.com/300757.meyc@deped.gov.ph



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

INTRODUCTION

Word processing software has become a technological necessity. Whether at home or at work, word processors help users write more in less time, in text that is easy to read (Microsoft, 2024). Microsoft Word, Google Docs, and other word processing tools are commonly used in a range of industries to generate, edit, and format texts. Microsoft Word, known also just as 'Word' is word processing software and a flagship product of Microsoft. It is an integral part of the Microsoft Office suite of products and is the most widely-used word processor in the world. In fact, it's estimated that Word is running on more than a billion devices worldwide (Wright, 2019).

As technology advances, the knowledge on how to use word processors become not only helpful but increasingly needed, particularly in educational institutions where students must submit assignments, reports, and projects in digital format. Senior High School students, in particular, face increasing demands to use these tools efficiently as part of their academic journey. Indrinal (2022) highlighted in their study the awareness and literacy of students' computer software applications. By having awareness of the computer software applications, students won't have a hard time installing word processing software. Their study recommended that the enhancement programme may be applied to the specialization or integrated into other ICT subjects in order to improve the students' knowledge and literacy in database application, web page design, and basic computer programming.

Word processing has many roles in students' academic journeys. Aladwan's (2021) study found that using word processors in teaching secondary students in Jordan significantly improved their writing skills, spelling, and grammar. The experimental group performed better than those without, indicating the effectiveness of word processors as a teaching tool. The study advocates for the introduction of word processors in teaching methods to enhance students' writing abilities.

Word processing is mostly done on a computer and is ICT (Information and Communication Technology) strand related but Word Processing is also helpful in other strands or subjects as Word Processing is used for various purposes such as essay and report papers. Aiyedun et.al (2023) did a study about the effectiveness of word processing on student learning in the field of science. Their study concluded that word processing technology has been shown to have a positive impact on student learning outcomes in science education. This study provided compelling evidence that the use of word processing technology in science education can lead to significant improvements in student learning outcomes.



Address:Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address:meycauayannhs@gmail.com/300757.meyc@deped.gov.ph



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

While existing studies emphasize the impact of word processing on student learning outcomes, writing abilities, and application usage in other countries, a few of them in the international context measure the depth of students' real word processing knowledge. Moreover, there is no study conducted to assess the level of knowledge of students in Meycauayan National High School. Assessing the Word Processing knowledge in Microsoft Word of Grade 11 Information and Communication Technology Students in Meycauayan National High School is critical since they just finished Junior High School and are new to the strand. For Information and Communication Technology (ICT) students, learning word processing, particularly with Microsoft Word, is essential because it is an important component of their education and future job options. Lastly, assessing their knowledge will help identify their proficiency in essential word processing skills. By assessing students' competency early on, educators may identify areas for development, ensuring that pupils have the required digital knowledge and skills to succeed in school and beyond. With the said importance, this study aims to;

1. identify the proportion of ICT students who are knowledgeable about word processing in Microsoft Word
2. measure the level of Grade 11 Information and Communication Technology (ICT) students' knowledge in word processing in microsoft word (mean & mean percentage score);
3. identify specific areas where students lack confidence in their word processing knowledge in Microsoft Word, such as Home, Insert, Design, etc.; and
4. determine a plan of action based on the results of the findings on what further training or resources students believe they require to improve their word processing abilities.

This research could help the students to identify in which areas they need to improve their word processing knowledge. The results will give clues to teachers and they will be able to understand the knowledge levels of the student. The results could help school administrators or curriculum developers enhance the curriculum, ensuring that the students have the necessary skills to meet academic standards. This research can also contribute for the future researchers as their reference.

STATEMENT OF THE PROBLEM

The main objective of this research is to measure the level of knowledge in word processing of Senior High School ICT newcomers, the Grade 11 Information and Communication Technology Students at Meycauayan National High School. Specifically, this research aimed to answer the following questions:

1. What is the proportion of ICT students who are knowledgeable about word processing in Microsoft Word?
2. What is the level of Grade 11 Information and Communication Technology students' knowledge in word processing in Microsoft Word (mean & mean percentage score)?
3. In which areas of word processing do the students feel least confident? (For example: Home, Insert, Design, etc.)



Address:Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address:meycauayannhs@gmail.com/300757.meyc@deped.gov.ph



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

4. What training or resources can be developed based on the research findings that would help the students improve their word processing skills?

SIGNIFICANCE OF THE STUDY

The findings of this study are expected to be beneficial to the following:

- **Students.** The Grade 11 Information and Communication Technology Students will be able to identify their strengths and weaknesses in word processing. It will help them aim to focus on improving the areas where improvements are needed which could be helpful for their academics.
- **Teachers.** The result of this study will give clues to teachers and they will be able to understand the knowledge levels of the students. They can adjust their teaching methods and may focus on where the students need improvement and further knowledge.
- **School Administration.** The results of this study can help school administrators to enhance the curriculum, ensuring that the students have the necessary knowledge to meet academic standards.
- **Curriculum developers.** The findings of the study can be used to create more effective teaching materials and programs that address gaps in students' word processing knowledge.
- **Parents.** The study will inform parents on their children's digital literacy levels, educating them on the importance of word processing knowledge and urging them to help their child learn at home.
- **Future Employers.** Because word processing is an important skill in many businesses, this study will help students prepare for future jobs by ensuring they are proficient and knowledgeable in word processing.
- **Educational Policymakers.** The study's findings can inform policy decisions about more effectively incorporating ICT into the basic education curriculum, addressing digital skill shortages at an earlier stage.
- **Future Researchers.** This study will serve as the future researchers' reference if they wish to explore similar topics relating word processing.

SCOPE AND DELIMITATION

This study will assess Grade 11 Information and Communication Technology Students' Word Processing knowledge in Microsoft Word at Meycauayan National High School. This study will focus on Microsoft Word, other word processing software won't be used. The study conducted an online questionnaire via Google Form to 98 Grade 11 Information and Communication Technology students. The tabs Mailings, Review and View are not part of our assessment on knowledge of students in Word Processing.



Address: Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address: meycauayannhs@gmail.com/300757.meyc@deped.gov.ph



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

METHODOLOGY

RESEARCH DESIGN

This study employs descriptive cross-sectional design, a type of descriptive quantitative design, to assess the word processing knowledge in Microsoft Word of Grade 11 ICT students in Meycauayan National High School. A cross-sectional study is a type of research design in which you collect data from many different individuals at a single point in time. In cross-sectional research, you observe variables without influencing them. (Thomas, 2023)

It provides basic information about the data collected at one point in time. Using this approach may collect thorough information on the students knowledge of various Microsoft Word features and operations as well as identify typical issues they have. The descriptive aspect of this design will help to quantify the students' knowledge levels, offering useful information for future educational interventions. In addition, the researchers did not compare any variables.

POPULATION AND SAMPLE

The study involved a total of 131 Grade 11 Information and Communication Technology (ICT) students from different Grade 11- ICT Sections, Dell, Torvalds, Gates and Page. The researchers used the Raosoft Calculator to calculate sample sizes and determine the number of responses required for observational surveys to achieve the needed confidence level (ResearchGate, 2010). With the use of Raosoft Calculator, it was recommended that 98 respondents is the research's sample size.

This study uses non-probability voluntary response sampling from Meycauayan National High School, Academic Year 2024-2025. Voluntary response sampling is a type of non-probability sample made up of self-chosen participants. These participants volunteer to take part in different research studies. (QuestionPro, 2024). Purposive Sampling refers to selecting participants based on their characteristics, knowledge, experiences or some other criteria (NCSC).

RESEARCH INSTRUMENT

In this research, the researchers gathered data online through Google Forms survey. For the students to self-assess their knowledge, the researchers created a tick box grid layout with rows containing specific statements or indicators, such as 'I can type a text' and 'I can change the font color,' where students could assess their ability to perform these tasks, and columns labeled 'Yes' and 'No' for responses. The statements were organized by the five main tabs in Microsoft Word: Home, Insert, Design, Layout, and File. This format allowed the researchers to collect structured data on students' knowledge.

To ensure the validity of the research instrument, we sought the expertise of two teachers in Meycauayan National High School who reviewed and validated the statements included in the questionnaire. The criteria for validating are as follows:



Address:Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address:meycauayannhs@gmail.com/300757.meyc@deped.gov.ph



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

1. Clarity and Direction of Items
2. Suitability of Item
3. Adequateness of the Content
4. Attainment of Purpose
5. Objective
6. Scale and Evaluation Rating

This study's research instrument got all 5 scores from each criteria, with 5 as the highest score from a Grade 11 ICT teacher who teaches the ICT major subject, Computer System Services (CSS) and another all 5 score from a Grade 11 ICT teacher who teaches the subject Empowerment Technology (E-tech).

DATA COLLECTION

This study underwent the following steps:

Conceptual Phase. During the conceptual phase, the researchers looked at potential research problems. The researchers aimed to investigate what level of knowledge the new ICT students have in the word processing field. After going through some published research and articles about word processing, the researchers noticed that there was no research on the same topic that was conducted in Meycauayan, Bulacan, Philippines. After the group of researchers' discussion and some suggestions of the adviser, the researchers have come to the conclusion to specify the word processing software that needs to be used, the Microsoft Word. The researchers spotted a research need and realized that their findings could aid in ICT knowledge and skill training in schools. With the study objectives established, the researchers concluded the conceptual step and began working on the research paper, outlining its sections and reviewing the literature.

Design Phase. During the design phase, the researchers concentrated on developing the appropriate process. Following extensive discussion, the researchers settled on a descriptive-cross-sectional design appropriate for studying a specific population at a single point in time. The researchers chose an online Google Form survey to collect data from Grade 11 ICT students. The researchers used the Raosoft sample size calculator to estimate that 100 out of 131 Grade 11 ICT students are required. To ensure the survey's validity and reliability, the researchers asked for validations from two expert teachers in the word processing field. Two teachers validated the research instrument, and the researchers have applied their suggestions for the research instrument.

Empirical Phase. During the empirical phase, the researchers focused on gathering data via online Google Form surveys, effectively collecting the necessary information, the data of their self-assessed knowledge. The researchers had a little bit of difficulty while surveying Grade 11



Address:Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address:meycauayannhs@gmail.com/300757.meyc@deped.gov.ph



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

ICT students. The researchers ensured that students who wanted to participate could participate without issues such as lack of internet connection or access to a cell phone. To address these, the researchers offered students access to a hotspot and allowed them to use the researchers' phones in Incognito Mode. The goal is to reach 98 responses and through the students' voluntary participation, the researchers managed to gather 100 responses.

Analytical Phase. During the Analytical Phase, the researchers carefully analyzed the data that were collected. The researchers created a frequency table of how many Grade 11 ICT students answered "Yes" in every tab as well as how many students answered "No". Then, the researchers created a table with a Mean, Mean Percentage Score and the Verbal Interpretation. There, the researchers found the Tab where the students lacked confidence in their proficiency as many of them marked themselves as "No".

Dissemination Phase. This study will serve as references for future researchers giving them ideas and data relevant to the knowledge of students in word processing using Microsoft Word. The researchers will publish this online for easy access and everyone to access.

DATA ANALYSIS

This research measures the students' knowledge of word processing utilizing Microsoft Word software. The goal of this research is to determine the percentage of students who have fundamental word processing knowledge. Data analysis will include determining the mean and percentage distribution of the student's response. Percentage is a portion of a whole expressed as a number between 0 and 100 rather than as a fraction (Vocabulary, 2024) and Frequency is the number of times the value occurs in the data (Statistics Canada, 2021), it will help to identify the proportion of Grade 11 ICT students who are knowledgeable in word processing in Microsoft Word.

Mean is the average of the given numbers and is calculated by dividing the sum of given numbers by the total number of numbers (BYJU'S, 2024) and Mean Percentage Score indicates the ratio between the number of correctly answered items and the total number of test questions or the percentage correctly answered items in the test (Raganit, 2008). Mean and Mean Percentage Score will be calculated to measure the level of word processing knowledge in Microsoft Word of Grade 11 ICT students and to identify specific areas where students lack knowledge. These will be interpreted using the table below:



Address:Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address:meycauayannhs@gmail.com/300757.meyc@deped.gov.ph



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

Table 1
Proficiency Scale Level

Mean Percentage Score	Verbal Interpretation
25-49%	Low Proficiency
50-74%	Near Proficiency
75-89%	Proficient
90-100%	High Proficiency

Table 2
Data Analysis

Research Objective	Research Question	Instrument	Data Analysis
RO1: Identify the proportion of Grade 11 ICT students who are knowledgeable about word processing in Microsoft Word.	RQ1: What is the proportion of Grade 11 ICT students who are knowledgeable about word processing in Microsoft Word?	Survey	<ul style="list-style-type: none">• Percentage• Frequency
RO2: Measure the level of Grade 11 Information and Communication Technology (ICT) students' knowledge in word processing in Microsoft Word (mean & mean percentage score).	RQ2: What is the level of Grade 11 Information and Communication Technology students' knowledge in word processing in Microsoft Word (mean & mean percentage score)?	Survey	<ul style="list-style-type: none">• Mean• Mean Percentage Score
RO3: Identify specific areas where students lack confidence in their word processing knowledge in Microsoft Word, (For example: Home, Insert, Design, etc.)	RQ3: In which areas of word processing do the students feel least confident, (For example: Home, Insert, Design, etc.)?	Survey	<ul style="list-style-type: none">• Mean• Mean Percentage Score
RO4: Determine a plan of action based on the results of the findings on what further training or resources students believe they require to improve their word processing abilities.	RQ4: What training or resources can be developed based on the research findings that would help the students improve their word processing skills?	Survey	<ul style="list-style-type: none">• Content Analysis (identifying training needs)





Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

RESULTS AND DISCUSSION

In the results and discussion, the data that the researchers have gathered will be discussed. The conceptual framework will be followed and the Research Objectives will be answered in this part of research.

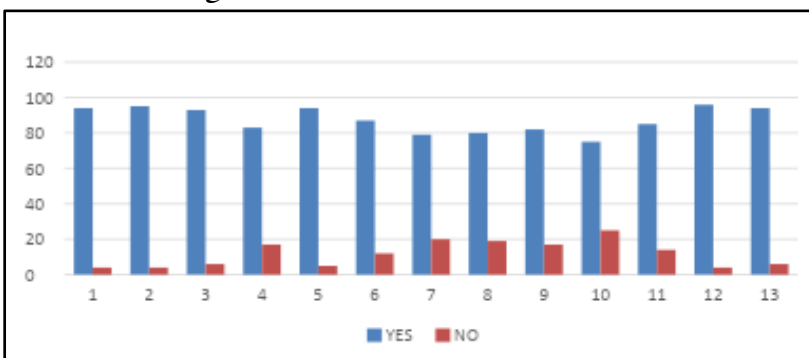
RO1: The Proportion of Grade 11 ICT Students Who are Knowledgeable about Word Processing in Microsoft Word

The researchers aimed to identify the proportion of Grade 11 ICT students who are knowledgeable about word processing in Microsoft Word. The table and figure below shows the frequency of the students' responses in Home Tab

Table 3.A
Students' knowledge in Home Tab

Indicator	Frequency of respondents who answered "Yes"	Percentage	Frequency of respondents who answered "No"	Percentage
1. I can type a text.	94	94%	4	4%
2. I can change a text's font size	95	95%	4	4%
3. I can change the font style of a text	93	93%	6	6%
4. I can change the text's format into italics	83	83%	17	17%
5. I can change the font color of a text	94	94%	5	5%
6. I can highlight a text into a specific color.	87	87%	12	12%
7. I can utilize bullet points in listing information.	79	79%	20	20%
8. I can utilize a numbered list in listing questions.	80	80%	19	19%
9. I can change the paragraph alignment into left, right, center, or justified.	82	82%	17	17%
10. I can change a line spacing into single, double, or custom spacing.	75	75%	25	25%
11. I can select a text and add borders.	85	85%	14	14%
12. I can copy a text	96	96%	4	4%
13. I can paste a text	94	94%	6	6%

Figure 1
Students' knowledge in Home Tab.





Republic of the Philippines
Department of Education
 REGION III - CENTRAL LUZON
 SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
 MEYCAUAYAN NATIONAL HIGH SCHOOL
 CAMALIG, CITY OF MEYCAUAYAN, BULACAN

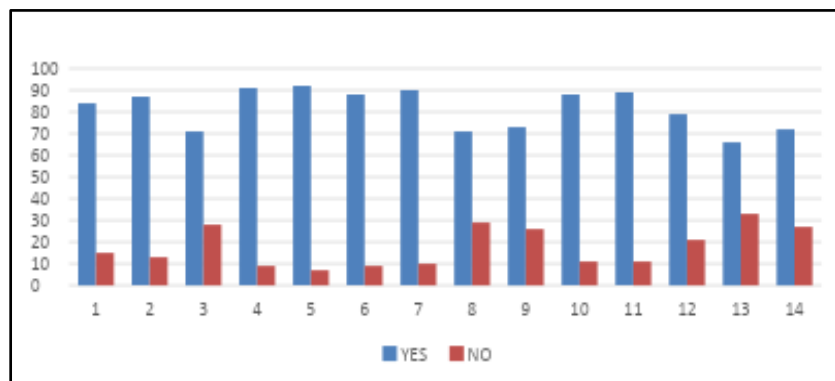
Table 3.A and Figure 2 shows that 94% of the respondents can type a text, 95% can change a text's font size, 93% can change the font style of a text, 83% can change the text's format into italics, 94% can change the font color of a text, 87% can highlight a text into a specific color, 79% can utilize bullet points in listing information, 80% can utilize numbered list in listing questions, 82% can change the paragraph alignment into left, right, center, or justified, 75% can change a line spacing into single, double, or custom spacing, 85% can select a text and add borders, 96% can copy a text, 94% can copy paste a text.

On the other hand, the next Table and Figure shows the knowledge of students in the Insert Tab.

Table 3.B
Students' knowledge in Insert Tab

Indicator	Frequency of respondents who answered "Yes"	Percentage	Frequency of respondents who answered "No"	Percentage
1. I can add a table with a custom number of columns and rows.	84	84%	15	15%
2. I can highlight a column	87	87%	13	13%
3. I can split a column into two (2).	71	71%	28	28%
4. I can add any picture.	91	91%	9	9%
5. I can add any shape.	92	92%	7	7%
6. I can change the color of the shape.	88	88%	9	9%
7. I can type a text inside the shape.	90	90%	10	10%
8. I can insert any chart (ex. pie chart, line graph, bar graph, etc.)	71	71%	29	29%
9. I can add a blank header.	73	73%	26	26%
10. I can add a simple text box	88	88%	11	11%
11. I can type a text inside the text box.	89	89%	11	11%
12. I can type a text in the header	79	79%	21	21%
13. I can add a blank header or footer.	66	66%	33	33%
14. I can type number in the footer	72	72%	24	24%

Figure 2
Students' Knowledge in Insert Tab.





Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

Table 3.B and Figure 3 shows that 84% of the respondents can add a table with a custom number of columns and rows, 87% can highlight a column, 71% can split the column into two (2), 91% can add any picture, 92% can add any shape, 88% can change the color of the shape, 90% can type a text inside the shape, 71% can insert any chart(ex. pie chart, line chart, bar graph, etc.), 73% can add a black header, 88% can add a simple text box, 89% can type a text inside the text box, 79% can type a text in the header, 66% can add a blank header or footer and 72% can type number in the footer.

On the other hand, the next Table and Figure shows the knowledge of students in the Design Tab.

Table 3.C

Students' knowledge in Design Tab

Indicator	Frequency of respondents who answered "Yes"	Percentage	Frequency of respondents who answered "No"	Percentage
1. I can change the theme of the pages.	88	88%	11	11%
2. I can change the spacing of a paragraph.	78	78%	20	20%
3. I can change the page color.	84	84%	16	16%
4. I can add a page border	80	80%	18	18%

Figure 4

Students' Knowledge in Design Tab.

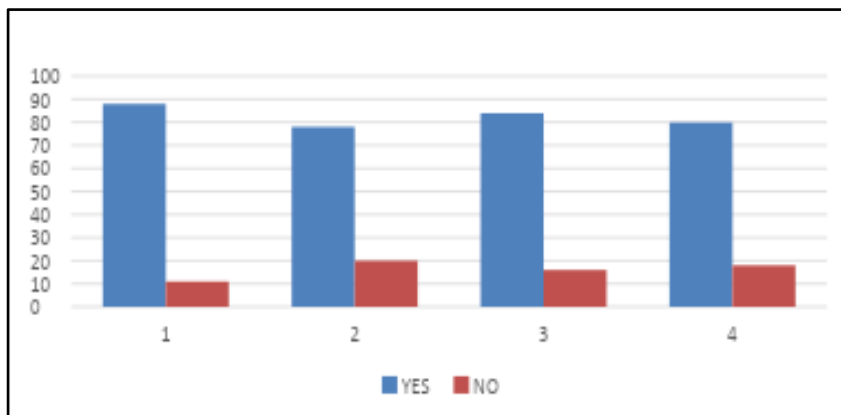


Table 3.C and Figure 3 shows that 88% of the respondents can change the theme of the pages, 78% can change the spacing of paragraphs, 84% can change the page color and 80% can add a page border.



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

On the other hand, the next Table and Figure shows the knowledge of students in the Layout Tab.

Table 5.D

Students' knowledge in Layout Tab

Indicator	Frequency of respondents who answered "Yes"	Percentage	Frequency of respondents who answered "No"	Percentage
1. I can change the margin of the document I am editing	79	79%	20	20%
2. I can change the orientation from portrait to landscape or vice versa.	66	66%	32	32%
3. I can change the size of the page.	88	88%	12	12%

Figure 5

Students' knowledge in Layout Tab

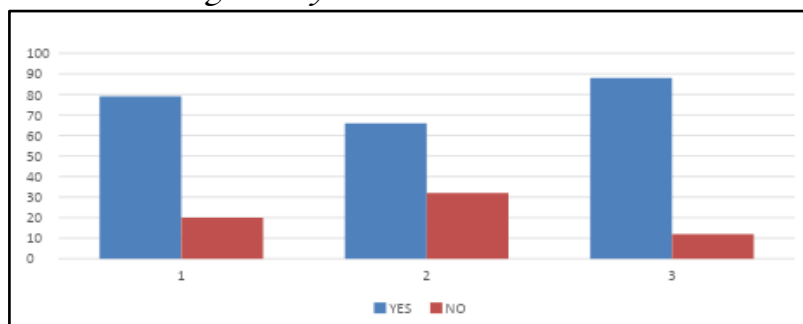


Table 3.D and Figure 5 shows that 79% of the respondents can change the size of the page and 88% can change the margin of a document. The students are proficient, however, the ability to change orientation from portrait to landscape has a low percentage, with only 66%.

On the other hand, the next Table and Figure shows the knowledge of students in the File Tab.

Table 5.E

Students' knowledge in File Tab

Indicator	Frequency of respondents who answered "Yes"	Percentage	Frequency of respondents who answered "No"	Percentage
1. I can save the document to "This PC"	89	89%	8	8%
2. I can export the document as PDF	91	91%	6	6%
3. I can print the document in one copy	86	86%	12	12%
4. I can create a blank document	85	85%	12	12%



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

Figure 6

Students' Knowledge in File Tab.

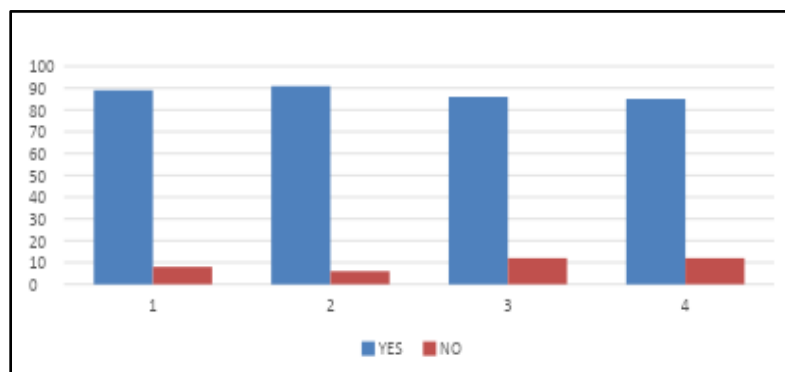


Table 3.E and Figure 6 shows that 89% of the respondents can save a document into "This PC", 91% can export the document as PDF, 86% can print the document in one copy and 85% can create a blank document.

RO2: The Level of Grade 11 ICT Students' Word Processing Knowledge in Microsoft Word.

The table below shows a study of students' knowledge in using various tabs in Microsoft Word, as determined by their survey responses. Each tab (Home, Insert, Design, Layout, and File) displays the calculated Mean and Mean Percentage Score (MPS), which represent the average number of "Yes" replies per student and skill level in that tab, respectively.

Table 6.

The Level of Grade 11 ICT Students' Word Processing Knowledge in Microsoft Word

Tab	Mean (M)	Mean Percentage Score (MPS)	Verbal Interpretation
Home	11.37	87.46%	Proficient
Insert	11.41	81.50%	Proficient
Design	3.30	82.50%	Proficient
Layout	2.32	77.67%	Proficient
File	3.51	87.75%	Proficient
	6.38	83.38%	Proficient

Table 4 shows that 87.46% answered "Yes" in the Home Tab, 81.50% in the Insert Tab, 82.50% in the Design Tab, 77.67% in the Layout Tab and 87.75% in the File Tab. This shows that Grade 11 ICT students have a high degree of knowledge in word processing, as shown by their overall mean score of 6.38 and mean percentage score of 83.38%. This indicates that the Grade 11 ICT students are knowledgeable in using Microsoft Word for word processing.



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

RO3: Specific Areas where Students Lack Confidence in their Word Processing Knowledge in Microsoft Word

Figure 7.

Overall Students' knowledge in utilizing Microsoft Word for word processing.

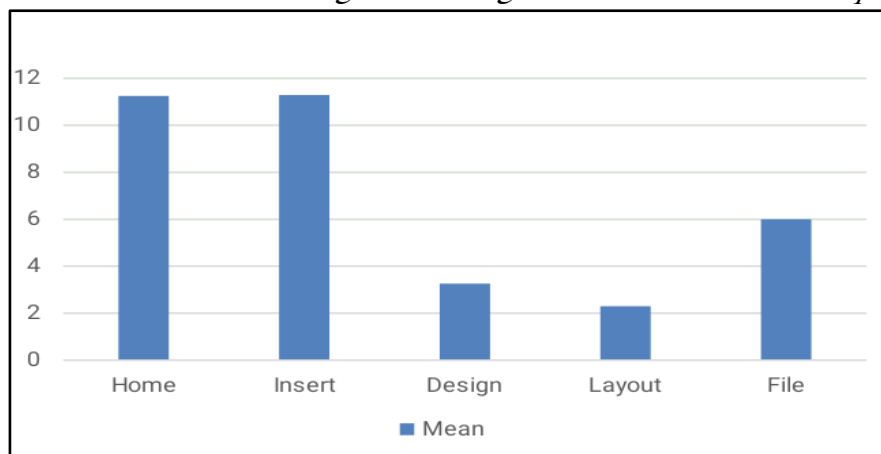


Table 2 answers this study's research question number 3. We can see at the table as well as the bar graph that the tab "Layout" is where students lack confidence in their word processing knowledge in Microsoft Word, followed by "Design" and "File".

According to the results presented, students are generally proficient and knowledgeable in utilizing Microsoft Word for word processing. The students demonstrated high levels of proficiency in tasks such as typing text, changing font styles, adding images, inserting tables, and changing page colors. However, the survey found that students require additional improvement in certain areas. These includes;

1. **Layout-** Students demonstrated a lower level of proficiency in changing the document's margin, orientation from portrait to landscape, and page size.
2. **Design-** Students demonstrated a lower level of proficiency in changing the spacing of a paragraph and adding page borders.
3. **File-** Students showed a slightly lower proficiency in creating blank documents and printing one copy of the document they made.



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

RO4: Plan of Action

Though the result showed that the majority of the students are knowledgeable in word processing using Microsoft Word, the areas where they marked "No" can't be left behind. Interventions or action plans are needed to make sure that students will be completely knowledgeable enough in word processing especially to the basic knowledge and skills that they need. That will lead to having proper jobs. The following interventions are recommended;

Table 7.

Basis	Action/Task	Time Frame	Persons Involved	Target Results
Although the results shows proficiency of students in each tab, the least knowledge in terms of the tabs "Layout", "Design" and "File"	The researchers will make a video tutorial, greatly focusing on the tabs "Layout", "Design", and "File" to show to the Grade 11 ICT Students.	Can be watched every Homeroom hours	<ul style="list-style-type: none">• Researchers• Students	Tutorials are for students to watch, to improve their proficiency and gain additional knowledge

The data analysis has shown that students are proficient in utilizing Microsoft Word for Word Processing but there are specific tabs where only a few of the students answered “Yes” compared to the other tabs. With that being said, the researchers created an action plan, and that is to make a video tutorial that can help the students improve their proficiency specifically on the tabs "Layout", "Design", and "File". The tutorial can also help the students to gain additional knowledge.

CONCLUSION

In the light of the findings, the study concludes that 83% of the Grade 11 ICT Students are proficient in using Microsoft Word for word processing. As the newcomers of the strand ICT, they are knowledgeable enough to use Microsoft Word for educational purposes like school reporting, assignments and others. Being knowledgeable in word processing will also help them for their future jobs. However, in the result of the self-assessment, there are top 3 tabs, where in each indicator were labeled by the students as "No", meaning the student doesn't know how to perform the said statement, namely Layout, Design and File.



Address:Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address:meycauayannhs@gmail.com/300757.meyc@deped.gov.ph



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

RECOMMENDATION

Based on the conclusion, it is recommended that;

- Teachers should take a closer look to where the students lacks knowledge in word processing using Microsoft Word in order for them adjust their teaching system
- Students should explore more about the functionalities and features of Microsoft Word and frequently engage in on-site word processing activities. It will be best to actually face computers frequently and;
- Researchers should make online tutorials for the students to watch to gain additional knowledge



Address:Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address:meycauayannhs@gmail.com/300757.meyc@deped.gov.ph



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

REFERENCES

Indrinal, C. (2022, March) Senior High School Students' Awareness and Literacy on Computer Software Applications. International Journal of Educational Management and Development Studies. 2022, 3(1), 40-48. Retrieved October 2, 2024, from https://www.researchgate.net/publication/367753213_Senior_High_School_Students'_Awareness_and_Literacy_on_Computer_Software_Applications

Aladwan, Y. (2021, July) The Effect of Using Word Processor in Teaching Writing Skill Among Secondary Students in Schools in Jordan. Educational Research and Reviews. 2021, 16(7), 272-278. Retrieved September 20, 2024, from <https://eric.ed.gov/?id=EJ1309641>

Aiyedun, T.G.O., Ayo, V.A (2023, August) Effectiveness of Word Processing on Student Learning Outcomes in Science Education: A Comparative Analysis of Direct, Inquiry-Based, and Project-Based Instructional Approaches Research Gate. 2023, 02(7), 516-522. Retrieved October 1, 2024, from https://www.researchgate.net/publication/372824067_Effectiveness_of_Word_Processing_on_Student_Learning_Outcomes_in_Science_Education_A_Comparative_Analysis_of_Direct_Inquiry-Based_and_Project-Based_Instructional_Approaches

Gardner, E.M. (2010) Sample size and Power Calculations Made Simple. International Journal of Therapy and Rehabilitation. 2010, 17(1), 10-14. Retrieved October 30, 2024, from https://www.researchgate.net/publication/272469429_Sample_size_and_power_calculations_made_simple

Wright, L. (2019, March) The History of Microsoft Word. Core. 2019, Retrieved September 25, 2024 from <https://www.core.co.uk/blog/blog/history-microsoft-word#:~:text=Microsoft%20Word%2C%20known%20also%20just,than%20a%20billion%20devices%20worldwide.>

Thomas, L. (2023, June) Cross-Sectional Study|Definition, Uses and Examples. Scribbr. 2023, Retrieved September 26, 2024 from <https://www.scribbr.com/methodology/cross-sectional-study/>



Address:Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address:meycauayannhs@gmail.com/300757.meyc@deped.gov.ph



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

Question Pro (2024) Voluntary Response Sample: Definition, Characteristics, Examples and Advantages. Question Pro . 2024, Retrived September 26, 2024 from <https://www.questionpro.com/blog/voluntary-response-sample/>

Vocabulary (2024) Percentage. Vocabulary. 2024, Retrieved September 27, 2024 from <https://www.vocabulary.com/dictionary/percentage#:~:text=A%20percentage%20is%20a%20portion,itsel,f%20and%20multiply%20by%20100.>

Statistics Canada (2021) Frequency Distribution. Statistics Canada. 2021, Retrieved September 27, 2024 from <https://www150.statcan.gc.ca/n1/edu/power-pouvoir/ch8/5214814-eng.htm>

BYJU (2024) Mean Definition and Meaning. BYJU. 2021, Retrieved September 27, 2024 from [https://www.google.com/search?q=Mean+is+the+average+of+the+given+numbers+and+is+calculated+by+dividing+the+sum+of+given+numbers+by+the+total+number+of+numbers+\(BYJU%E2%80%99S%2C+2024\)&oq=Mean+is+the+average+of+the+given+numbers+and+is+calculated+by+dividing+the+sum+of+given+numbers+by+the+total+number+of+numbers+\(BYJU%E2%80%99S%2C+2024\)&aqs=chrome..69i57.585j0j4&client=ms-android-oppo-rev1&sourceid=chrome-mobile&ie=UTF-8](https://www.google.com/search?q=Mean+is+the+average+of+the+given+numbers+and+is+calculated+by+dividing+the+sum+of+given+numbers+by+the+total+number+of+numbers+(BYJU%E2%80%99S%2C+2024)&oq=Mean+is+the+average+of+the+given+numbers+and+is+calculated+by+dividing+the+sum+of+given+numbers+by+the+total+number+of+numbers+(BYJU%E2%80%99S%2C+2024)&aqs=chrome..69i57.585j0j4&client=ms-android-oppo-rev1&sourceid=chrome-mobile&ie=UTF-8)

Raganit, A. (2008) A Comparative Analysis of Mean Percentage Scores (MPS) of Senior High

School Classes. INTERNATIONAL JOURNAL OF MULTIDISCIPLINARY: APPLIED

BUSINESS AND EDUCATION RESEARCH. 2008, 2(7), 587-580 Retrieved September 27, 2024 from https://sg.docworkspace.com/d/sIJ_v69eQApvK_7kG?sa=601.1123



Address:Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address:meycauayannhs@gmail.com/300757.meyc@deped.gov.ph



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

A blessed day!

You are invited to participate in a study titled **"Measuring The Word Processing Knowledge in Microsoft Word of Grade 11 Information and Communication Technology Students in Meycauayan National High School"**. The purpose of this study is to measure the level of knowledge in word processing of Senior High School ICT newcomers, the Grade 11 Information and Communication Technology Students at Meycauayan National High School. Your participation is voluntary, and you may withdraw at any time without penalty.

Data Privacy Notice:

In compliance with the **Data Privacy Act of 2012**, all information collected will be treated confidentially. Your data will only be used for this research, anonymized, and stored securely. You have the right to access, correct, or request deletion of your personal data.

By selecting "I agree" below, you consent to participate in this study and acknowledge that your personal data will be handled in accordance with the Data Privacy Act.

☐ I agree to participate

☐ I do not agree to participate

Signature over Printed Name



Address:Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address:meycauayannhs@gmail.com/300757.meyc@deped.gov.ph



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

Name: _____

Section: ☐ Dell ☐ Torvalds ☐ Gates ☐ Page

Age: ☐ 15-17 ☐ 18-20 ☐ 21- Above

Gender: ☐ Male ☐ Female ☐ LGBTQIA+

To the respondents: Please check the column "Yes" if you can do the activities that are said on the statement and Check the column "No" if you can't.

A. HOME		
1. I can type a text.		
2. I can change a text's font size		
3. I can change the font style of a text		
4. I can italicize a text.		
5. I can change the font color of a text.		
6. I can highlight a text into a specific color.		
7. I can utilize bullet points in listing informations.		
8. I can utilize a numbered list in listing questions.		
9. I can change the paragraph alignment into left, right, center or justified.		
10. I can change a line spacing into single, double or custom spacing		
11. I can select a text and add borders.		
12. I can copy a text		
13. I can paste a text		



Address:Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address:meycauayannhs@gmail.com/300757.meyc@deped.gov.ph



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

B. INSERT		
1. I can add a table with two (2) columns and three (3) rows.		
2. I can highlight a column		
3 I can split the a column into two (2).		
4. I can add any picture.		
5. I can add any shape.		
6. I can change the color of the shape.		
7. I can type a text inside the shape.		
8. I can insert any chart (ex. pie chart, line graph, bar graph, etc.)		
9. I can add a blank header.		
10. I can type a text in the header		
11. I can add a simple textbox		
12. I can type a text inside the textbox.		
13. I can add a blank footer.		
14. I can type number in the footer		

C. DESIGN		
1. I can change the Theme of the pages.		
2. I can change the spacing of a paragraph.		
3. I can change the page color.		
4. I can add a Page Border.		



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN

D. LAYOUT		
1. I can change the Margin of the document I am editing.		
2. I can change the Orientation portrait to landscape and vice versa.		
3. I can change the size of the page.		

E. FILE		
1. I can save the document to "This PC"		
2. I can export the document as PDF		
3. I can print the document in one copy		
4. I can create a blank document		



Address:Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address:meycauayannhs@gmail.com/300757.meyc@deped.gov.ph



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN



NAME: JAY ANN G. BAEL

Age: 17

Address: 510 Sitio Mane, Brgy. Iba, Meycauayan, Bulacan

Gmail: jayannbael10@gmail.com

EDUCATIONAL BACKGROUND

Primary School: Sinaman Integrated School (2013-2019)

Secondary - Junior High School: Sinaman Integrated School (2019- 2023)

Secondary - Senior High School: Meycauayan National High School (2023-2025)

Information and Communication Technology

REFERENCES

Elger R. David

Contact Number: 09255092909

Jherald Esteban

Contact Number: 09062750007

I hereby certify that the information above is truthful.

Signature of the Researcher above Printed Name



Address:Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address:meycauayannhs@gmail.com/300757.meyc@deped.gov.ph



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN



NAME: LORENCE GABRIEL C. GABRIEL

Age: 18

Address: Brgy. Pantoc, Balaongan Ibaba, Meycauayan, Bulacan

Gmail: gabriellorence367@gmail.com

EDUCATIONAL BACKGROUND

Primary School: Grade 1- Grade 5: Iba Elementary School (2013-2018)

Grade 6: Villa Vaniegas Elementary School (2018-2019)

Secondary - Junior High School: Meycauayan National High School (2019- 2023)

Secondary - Senior High School: Meycauayan National High School (2023-2025)

Information and Communication Technology

REFERENCES

Charlene Joy C. Ellazo

Contact Number: 09158962654

Jherald Esteban

Contact Number: 09062750007

I hereby certify that the information above is truthful.

Signature of the Researcher above Printed Name



Address: Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address: meycauayannhs@gmail.com/300757.meyc@deped.gov.ph



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN



NAME: ANDREI JOHN NAVARRO

Age: 17

Address: Blk. 39, Lot 13, Dao, Phase 4A, Bahay Pare, Sto. Niño, Meycauayan, Bulacan

Gmail: andreijohnnavarro02@gmail.com

EDUCATIONAL BACKGROUND

Primary School: Perez Elementary School (2013-2019)

Secondary - Junior High School: Meycauayan National High School (2019- 2023)

Secondary - Senior High School: Meycauayan National High School (2023-2025)

Information and Communication Technology

REFERENCES

Charlene Joy C. Ellazo

Contact Number: 09158962654

Jherald Esteban

Contact Number: 09062750007

I hereby certify that the information above is truthful.

Signature of the Researcher above Printed Name



Address:Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address:meycauayannhs@gmail.com/300757.meyc@deped.gov.ph



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN



NAME: IVY JANNELLE SANDOVAL

Age: 21

Address: Phase 3D, Noe St., Sto. Niño, Brgy. Perez, Meycauayan, Bulacan

Gmail: ivyjannelles@gmail.com

EDUCATIONAL BACKGROUND

Primary School: Graciano Lopez Jaena Elementary School (2013-2019)

Secondary - Junior High School: Meycauayan National High School (2019- 2023)

Secondary - Senior High School: Meycauayan National High School (2023-2025)

Information and Communication Technology

REFERENCES

Charlene Joy C. Ellazo

Contact Number: 09158962654

Jherald Esteban

Contact Number: 09062750007

I hereby certify that the information above is truthful.

Signature of the Researcher above Printed Name



Address:Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address:meycauayannhs@gmail.com/300757.meyc@deped.gov.ph



Republic of the Philippines
Department of Education
REGION III - CENTRAL LUZON
SCHOOLS DIVISION OF CITY OF MEYCAUAYAN
MEYCAUAYAN NATIONAL HIGH SCHOOL
CAMALIG, CITY OF MEYCAUAYAN, BULACAN



NAME: ALEXIS MCGRAYE DE HONOR

Age: 17

Address: 348 Santiago St., Ana Maria, Iba, Meycauayan, Bulacan

Gmail: dehonormcgraye@gmail.com

EDUCATIONAL BACKGROUND

Primary School: Iba Elementary School (2013-2019)

Secondary - Junior High School: Assemblywoman Felicita G Bernardino Memorial Trade School (2019- 2023)

Secondary - Senior High School- Grade 11: Colegio De Sto. Niño (2023-2024)

Grade 12: Meycauayan National High School (2024-2025)

Information and Communication Technology

REFERENCES

Charlene Joy C. Ellazo

Contact Number: 09158962654

Jherald Esteban

Contact Number: 09062750007

I hereby certify that the information above is truthful.

Signature of the Researcher above Printed Name



Address:Camalig, City of Meycauayan, Bulacan

Telephone No. (044)913-0664

Email

Address:meycauayannhs@gmail.com/300757.meyc@deped.gov.ph