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TABLE OF CONTENTS

1.0 INTRODUCTION.....	Page 3
1.1 LITERATURE REVIEW.....	Page 3-4
2.0 RESEARCH METHODOLOGY.....	Page 4-5
2.1 Quantitative Research Method.....	Page 5
2.2 Qualitative Research Method.....	Page 5
3.0 POPULATION.....	Page 5-6
4.0 RATIONALE.....	Page 6
5.0 FINDINGS AND ANALYSIS.....	Page 7
6.0 CONCLUSION.....	Page 13
7.0 REFERENCES.....	Page 13-14
8.0 <i>Appendix 1 - Questionnaire</i>	Page 15
8.1 <i>Appendix 2- Questionnaire table based on 20 people</i>	Page 16

IMPACT OF VISUAL LEARNING ENVIRONMENT

1.0 INTRODUCTION

This report is based on the research on the Impact of the visual learning environment, I am going to demonstrate the research and results that I found out about this topic "Report for the explanation of the visual learning environment". The information is based on students from the University of Wales and my friends/colleagues Universities in which I am going to explain the collection of quantitative data in a questionnaire of six closed questions. Once we have that, I will explain the questions in two types of graphs with explanations of each of them.

After explaining our graphs with explanations on each of them, we will go on to see if it has really been helpful for the students, unlike the old methods of explanation that they used to use years ago. We also explain the limitations to help some misunderstanding and the collecting secondary data.

1.1 LITURATURE REVIEW

Visual Learning Environment (VLE) is a set of tools formed by the internet, including (smartphones, tablets, computers,...) to improve student teaching and learning. Expansion of the imagination between teachers and students to facilitate easy and understandable teaching for the student, also facilitate the duty of the teacher, having to teach. It offers the opportunity to contact the teachers in a very efficient and quick way at the same time, for any questions you have without having to wait for a presentation in class to ask your questions, ideas, etc. To change physical classes for Virtual, they need to work more on it, but that's really hard to do it. But not impossible. What it really does is improve them has many great advantages. To access your platform, that always requires a user and a password, anyone who can access your information, only teachers can access the work you have submitted in order to evaluate your work. *"The virtual learning environment (VLE) has become very useful for teachers and students in the last decade and will probably continue like this. VLE has become a very fundamental tool for universities."* (Oakman 2020)

"The virtual learning environment has increased a total of 65.5% from one year to the next with 33,184 people who started a total session of 50,645 at the University of the 'Northern Art School'. This has helped VLE a lot to integrate into school life,

*beneficial advice to teachers and tutors.” (Egan 2020) They are software systems based on allowing students to interact with teachers and classmates, access from anywhere or at any time without any restriction. After my own research on the students at the *University of Wales Trinity Saint David*, the students have stated that the (VLE) has helped them a lot this year, that it is easy to access and to use it. They are also very happy in the part for the missing classes they have no problems by themselves, they investigate in Moodle what they have missed in class because they cannot attend.*

2.0 RESEARCH METHODOLOGY

The **Data** *“is information, especially facts or numbers, collected for examination and specifically. Used to help make decisions, or information in electronic form that can be stored and used by a computer”.* (Cambridge Dictionary, 2020)

This report phase shows the **Data Collection**, *“Process of gathering and measuring information on variables of interest, an established systematic way that allows asking research questions, answering questions, testing hypotheses and evaluating results”.* (Jovancic, 2019) All the information from a questionnaire carried out by myself, in the questions that consist of six closed and two open questions. The questions were based on the impact that is controlled (VLE), with different multiple choice questions, Yes or No, evaluation with numbers and satisfaction on overall performance. Giving all participants the same options to choose what satisfies them the most, the work will be more effective. The questionnaire is made up of 20 questions, answered by 80% of Trinity Saint David University students and 20% about my friends / colleagues at different universities. Which shows the size of my research and to show us what they think and feel about it.

Primary Date Collection is the information obtained in the first person by myself (researcher) with my research, the information will be a questionnaire that we did in class as a class exercise between the classmates of the University Trinity Saint David.

On the **Secondary Date Collection**, all the information and everything I have needed is collected, such as surveys, questionnaires or information maintained by Internet or books, researched by other researchers. Also the information from the survey that I had to exchange with my colleagues to be able to continue with my research.

“Quantitative data is information about quantities, (numbers) and qualitative data is descriptive and refers to phenomena that can be observed but measured.” (McLeod, 2019)

2.1 Quantitative Research Method

This type of data represents in quantities, numbers or figures and charts or uses other values to identify quantities. It can be used to convert questions to numbers, graphs, or tables. The data obtained can be used to approve existing ideas, subject that is being studied or predictions. Data is considered more objective and reliable than qualitative, including surveys and questionnaires with closed questions.

2.2 Qualitative Research Method

Information refers to mentioning it in words, thoughts, ideas or feelings. Allowing greater depth of compression or thought. *“Qualitative research is a type of research that collects and works with non-numerical data and seeks to interpret the meaning of these data that help to understand social life”.* (Crossman, 2020)

During this work that was carried out for the investigation of the impact of virtual learning in this case, Moodle, qualitative research has been used as the questionnaire of the exercise that was done in class to see if it has been effective from the first day it began to be used. , if it has really been useful with open questions. This questionnaire can verify on the studied topic giving us ideas and the information that we really need to be able to make our types of graphs (pastel, graphs, line, ...) and what we use in the best possible way to get the information in our charts.

3.0 POPULATION

*“The **Population** is the largest group of people to whom it is intended to generalize the results of a study.” (Statistics Solutions, 2020)*

*“**Sample Size** is an important part of the assay methodology and is closely related to the precision and power of the assay results”(Pandis, Polychronopoulou, Eliades, 2011). And with the meaning of **Sample** that refers to a smaller, more manageable version of a larger group. It contains the characteristics of a larger*

population. Samples are used in tests when population sizes are too large for the test to have all possible members and observations. (kenton, 2019)

Trying to carry out Sample and Sample Size to my topic, this is questionnaire about Moodle the VLE, the topic we have had to discuss. Twenty people have been questioned, 80% from Trinity Saint David University and 20% from my colleagues and colleagues.

Ethics in data collection is respected when collecting and analyzing data and the research plan. The measures taken to protect and who provides the information or samples. This report examines the main concepts of data protection and privacy from the research point of view. Their goal is to raise awareness about these concepts and in assisting applicants as we present their responses. This report reflects the experience gained during the course of the Moodle, VLE to show some guidance to people who do not use it. He became as honest as he could be about the information he received, my information was based on my knowledge of the classes I had and with the help of the internet.

4.0 RATIONALE

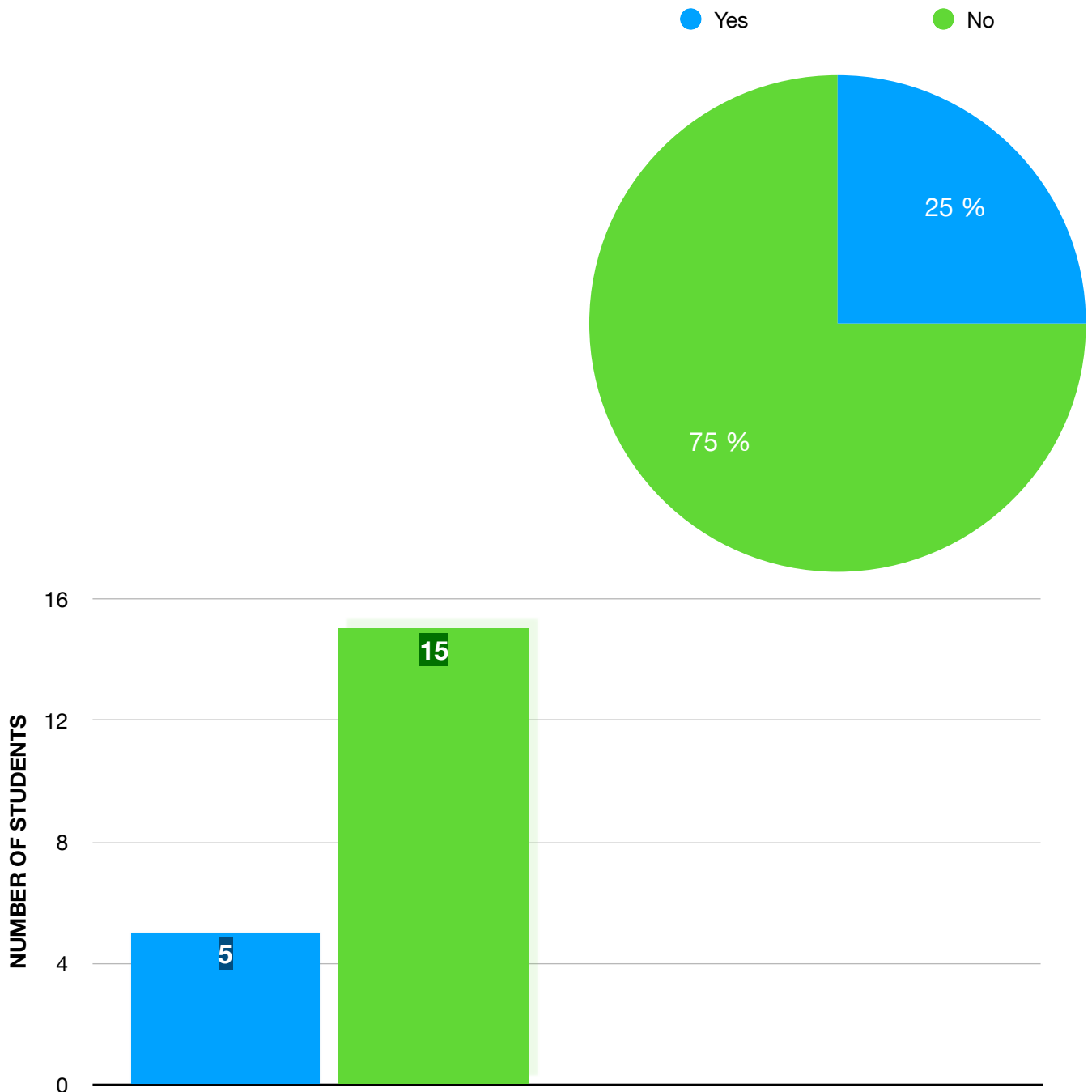
All this research that I developed in this group and continue to develop is part of the Digital Skills Research Module, where we had to do our report. Many times VLE serves as a support to provide what is teaching through technology, without having to share a classroom with the teacher. That is why we believe that it is necessary that you provide an excellent service to the students, therefore the students are going to do saber in the obligations of the following questionnaire. Several of them are happy with the service it offers, but there are always people with their opinions.

After each survey there are always improvements, since there was a certain disagreement in the people about the support they received from it, on the other hand the students have also mentioned about the advice that needs to be changed.

5.0 FINDINGS AND ANALYSIS

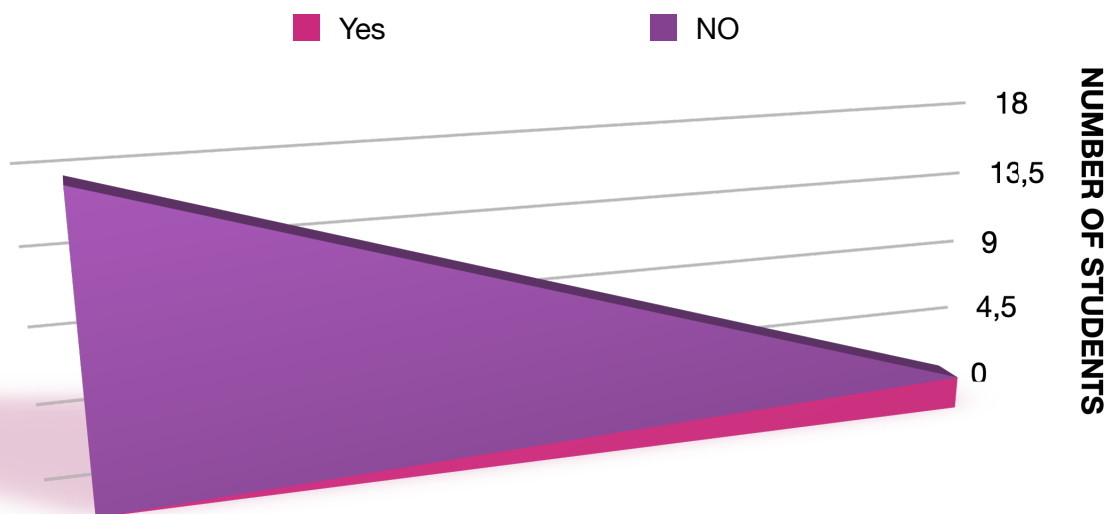
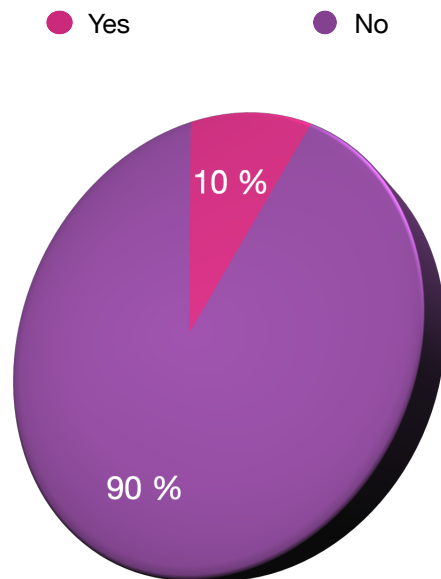
IMPACT OF THE VISUAL LEARNING ENVIRONMENT GRAPHS

Q1 -Is there anything you would change from the Moodle?



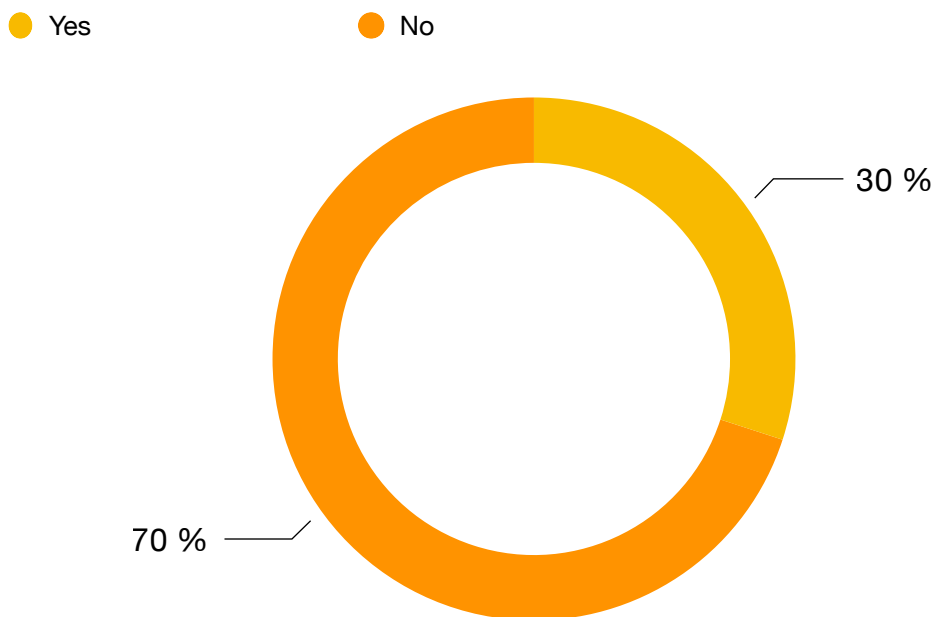
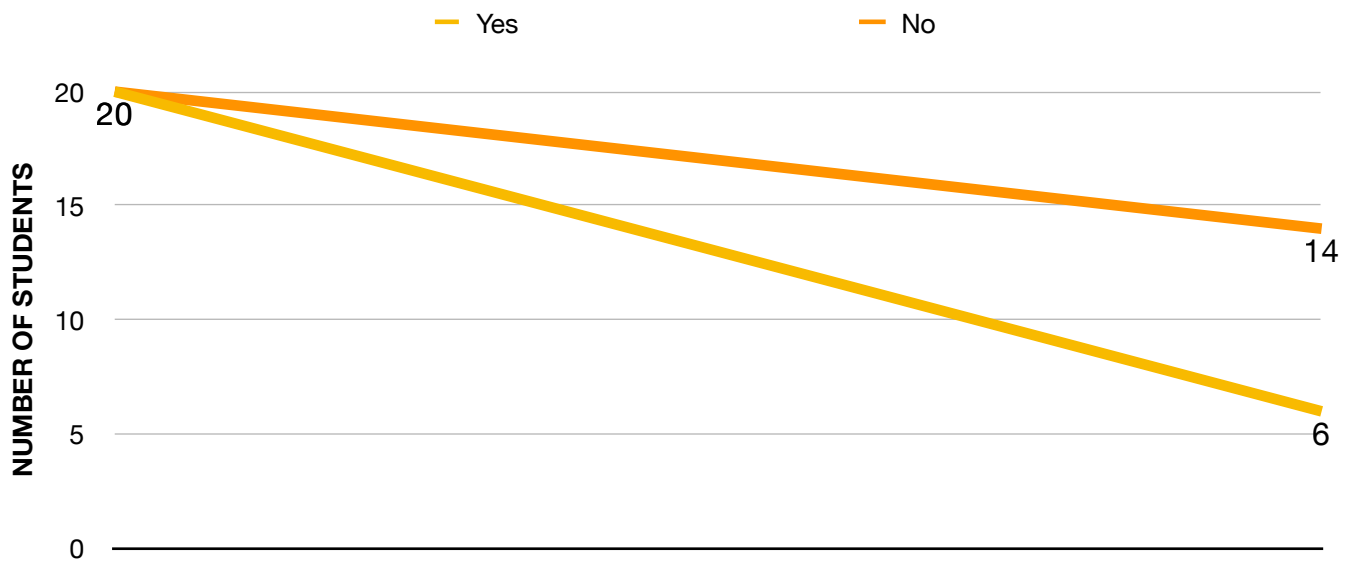
Q1- Graph Analysis : In this first graphs, we can see all the Students from UWSTD and my friends/colleagues, 75% of the people confirm that they will change something from the Virtual Learning Environment (Moodle) and the 25% of them they confirm the opposite, they will not change nothing. On the second one, we can observe that 15 of 20 they confirm that they will not change nothing and the other 5 of 20 confirm the opposite.

Q2 -Do you find any difficulty when you using the Moodle?



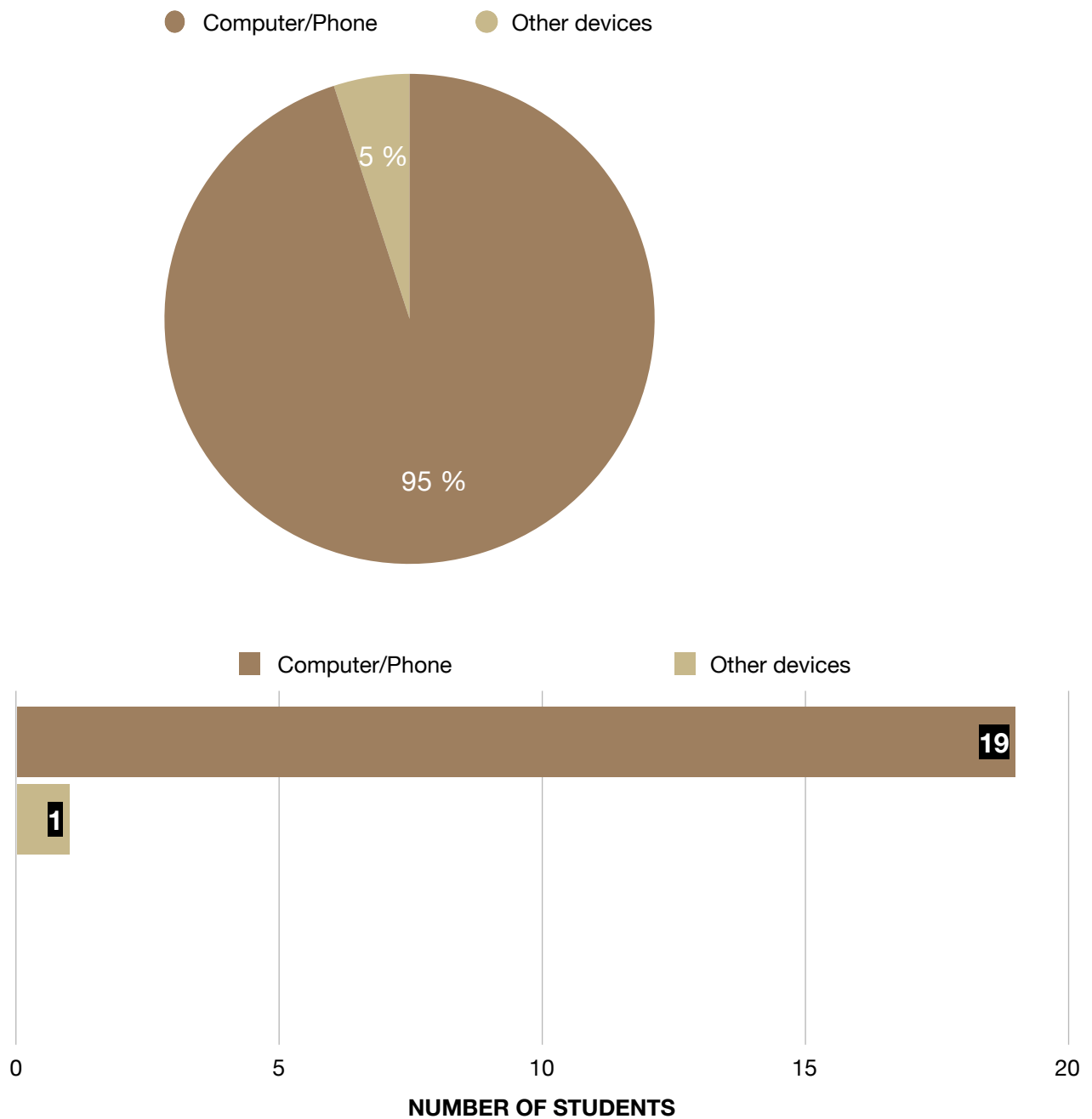
Q2- Graph Analysis : In these graphs we can see a very big difference regarding the answer of if they really find any difficulty when using Moodle with a 18 which means 90% of them they don't find non difficulty using the Moodle and the 2 (10%) they really find difficulties.

Q3 -Did you use the Moddle before?



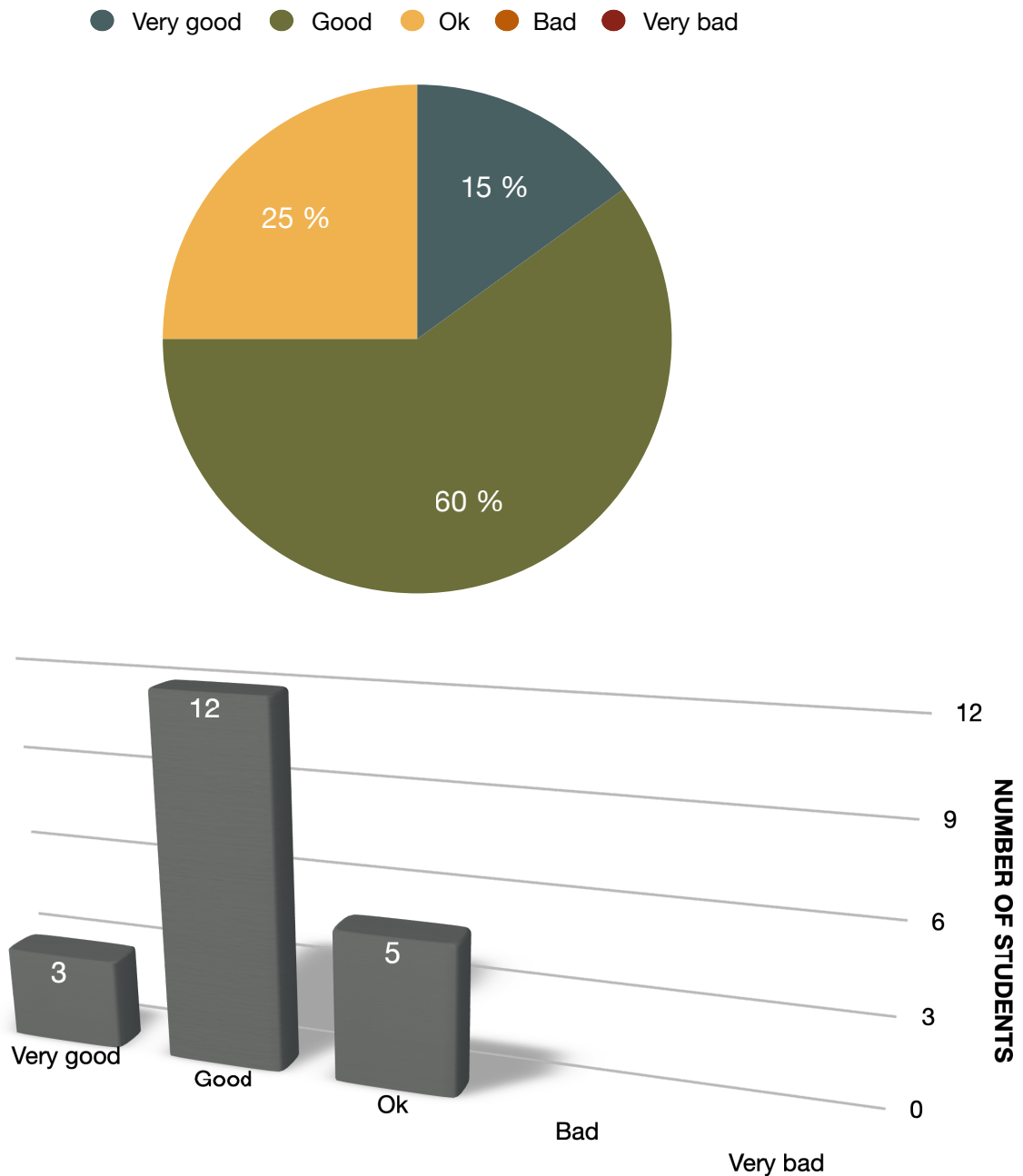
Q3- Graph Analysis : Analyzing this graphs we can see 30% is equivalent to 6 people who have used the Moodle before and 70% equivalent to 14 people have never used it, this being the first time.

Q4 -Where normally you use your Moddle?



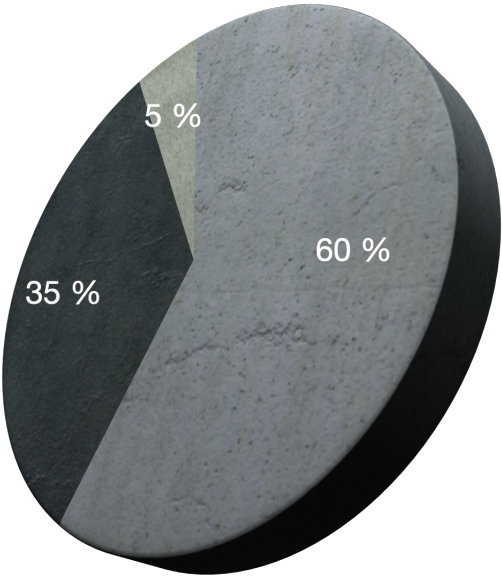
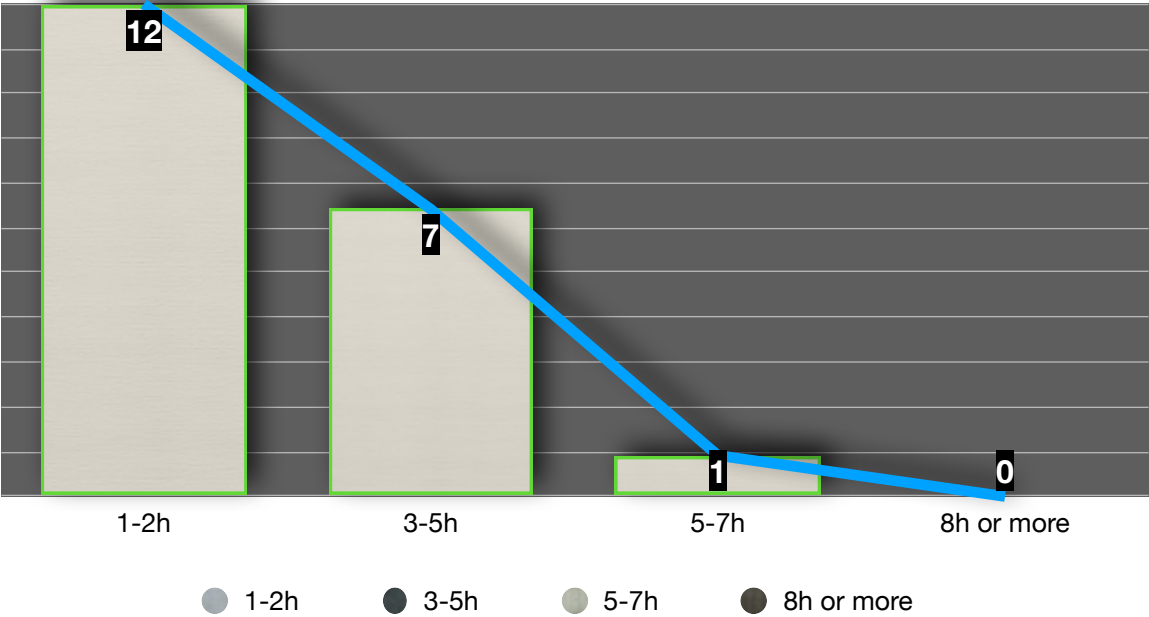
Q4- Graph Analysis : Is it better to access Moodle with the computer or mobile?
In my graphics with 90% 19 Students/ friends and colleagues assure that it is much better with the computer than the mobile being 10% equivalent to 1 person who has chosen with the mobile.

Q5 -What do you think about the service provided by the Moddle?



Q5- Graph Analysis : 25% of the students / friends and colleagues surveyed answered that Moodle provides a really good service, 60% affirm that it is good, while 15% think that it is Ok, not bad - not good, normal.

Q6 -About how many hours of a week do you generally spend on the Moddle?



Q6- Graph Analysis : We can see that students use an average of 1-2 hours a week in Moodle, with 60% equivalent to 12 students, meanwhile 35% with 7 people who confirm to use it between 3-5 hours a week and ending we have 1 person with 5% who confirm to use it between 5-7 a week.

6.0 CONCLUSION

In this report I was able to explain factors and conditions about the satisfaction of the students from my university, Trinity Saint David and my friends universities about the impact of virtual learning in this case, Moodle. These conditions have really been, satisfaction and if they would really change something in Moodle. Therefore, they are positive and negative points of who knows how to use it and who does not. Moodle has become a very fundamental tool for universities, the students have commented that it helps them in many points, one of them, not having to take books to universities. Moodle has a lot to do with studying, submitting projects, skipping class and keeping up to date. The connection between teacher and student on a daily basis helps a lot.

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8.0 Appendix 1 - Questionnaire

The impact of Virtual Learning Environment on the Students of UWTSD (London)

1- *How does Virtual Learning Environment (Moodle) help you with this course? (Explain in few words)*

2- *Where normally you use your Moodle? (Choose the answer you consider appropriate)*

- *Computer / Phone*
- *Other devices*

3- *Is there anything you would change from the Moodle? (Choose the answer you consider appropriate)*

- *Yes*
- *No*

4- *Do you find any difficulty when you using the Moodle? (Choose the answer you consider appropriate)*

- *Yes*
- *No*

5- *Did you use the Moodle before? (Choose the answer you consider appropriate)*

- *Yes*
- *No*

6- *What do you think about the service provided by the Moodle? (Choose the answer you consider appropriate)*

A. *Very good* B. *Good* C. *Ok* D. *Bad* C. *Very bad*

7- *About how many hours of a week do you generally spend on the Moodle? (Choose the answer you consider appropriate)*

A. *1-2h* B. *3-5h* C. *5-7h* D. *8h or more*

8- *How effectively Moodle is helping you in your academic studies? (Explain in few words)*

8.1 Appendix 2- Questionnaire table based on 20 people

	Very helpful	Non helper			
1- How does Virtual Learning Environment (Moddle) help you with this course?	17	3			
	YES	NO			
2- Is there anything you would change from the Moddle?	5	14			
	YES	NO			
3- Do you find any difficulty when you using the Moddle?	2	17			
	YES	NO			
4- Did you use the Moddle before?	5	14			
	Computer/Phone	Other devices			
5- Where normally you use your Moddle?	18	1			
	Very good	Good	Ok	Bad	Very Bad
6- What do you think about the service provided by the Moddle?	3	11	5	0	0
	1-2	3-5	5-7	8 or more	
7- About how many hours of a week do you generally spend on the Moddle?	11	7	1	0	
	Very satisfield	Satisfield	Unsatisfield		
8- How effectively Moddle is helping you in your academic studies?	14	5	1		