

DIGITAL SKILLS AND RESEARCH METHODS

Term 2

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- **Module Title** **MODULE CODE BMSW4003**
- **Assignment Title: The impact of Virtual Learning Environment (VLE)**
report (2000 words).
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The impact of Virtual Learning Environment (VLE)

Introduction

Virtual Learning Environment (VLE), is software system educational platform introduced to progress students in an active educational learning method, by transforming corporal physical classroom into a Virtual Learning Environment (VLE), series of teaching tools and methods that enhance and improve student's learning experience on Moodle 2020/2021 that include home, calendar, email, library, My TSD, Webservice desk, Module Search, education has levels within the educational history there was a lot of challenges that requested to adapt a new generation technology method, in our university because of COVID-19 we are applying Virtual Learning Environment (VLE), for continuing learning in a safe healthy environment, me and the other students groups we are learning lessons from Moodle 2020/2021, by applying Virtual Learning Environment (VLE), to develop personal Digital skills and research methods also the other relevant academic Moodle lessons, which are (learning lessons) presented by higher education university lecturers utilizing computers and the internet, in this higher educational level we are receiving our lessons by Virtual Learning Environment (VLE) the basic target is to enhancing our scientific treasure of academic education skills based on all Moodle learning lessons.

Rationale

As a university student , I am in a higher educational level learning experience I want to understand more about what I am learning, what dose Moodle learning experience means, the impact of my actual learning lessons in this stage of Virtual Learning Environment (VLE) – Moodle, am I doing an academic evaluation for my personal higher educational learning level and what impact has this Virtual Learning Environment (VLE) on me and on my university classroom students, using and learning Moodle lessons by the internet for research as a secondary data is very helpful for all researchers, but on me the first important impact was that Virtual Learning Environment (VLE) is an educational method widely applied in a lot of universities from here my curiosity started for doing this research as a primary data trying to understand learned lessons in Moodle what are the educational messages sent by Moodle , what we are receiving as students from Moodle, a series of impacts and reasons started to appear after that in this stage of educational development learning level, this research has the following reasons:

- Attempting to explore and to understand this new education platform lessons presented online through Moodle in Virtual Learning Environment (VLE).
- Explaining what academic skills I gained by utilising Moodle as an educational platform method.
- Conducting a survey as a primary data collection in form of a questionnaire design that result factors of students impacts in Moodle utilising Virtual Learning Environment (VLE). this survey examines various educational issues that practically affect student in actual learning cycle.
- This research information's present the importance of applying Moodle in Virtual Learning Environment (VLE) and what success has won for all students facing the actual unprecedented challenges of COVID-19
- showing as a student by this research my educational results from learning.

because of the above-mentioned reasons I am writing this educational report and to present also the questionnaire design.

Objectives

The research objectives aim to provide a research studying report based on the impact of Virtual Learning Environment (VLE) – Moodle on students, ‘by their learning experience including analysis of primary and secondary data conduct by individual survey using student’s university email for each student that already develop his individual questionnaire design showing their own research studies results.

-Who are chosen for this subject:

Students of the university are chosen for this subject by presenting an assignment report based on studying the impact of Virtual Learning Environment (VLE) – Moodle on students.

- Where is that research environment that conducting this report:

This research environment studying carefully the real impact on the students learning, when they set face to face with their private devices to learn their lessons for example a computer linked with internet that help students to interact with their university lectures online, they listen and hear as a verbal communications method on the other hand the students visually can see the lessons as a slide that given by an academic lesson form which explaining the topic ideas in a very clear paragraph.

- What is the main objective of this report:

The main objective of this report approaching different aspects of the negative impact and the positive impact that students are facing during their learning in Virtual Learning Environment (VLE) – Moodle, what are these obstacles that represent a threatens of negative impact which frequently does not allow students to receive in a complete way their lessons, in the other side what are the positive impact that students benefits from this modern technology and how it is so important to learn in a higher academic level.

-How this research study conducted:

This report determines the impact of Virtual Learning Environment (VLE) – Moodle software system educational platform on students, giving by a student in this practical education stage reflecting on academic factors such as rationale, objectives, literature review, methodology, primary data analysis, secondary data analysis, ethical considerations and the data protection act, conclusion and recommendations, appendix that include my questionnaire design.

Providing this studying report form, definitely gives a proof that any student wishing to learn can achieved the main goal of learning from Moodle software system, challenging all negative impacts to accomplishing a higher educational level.

Literature review

This search is an evaluation of the available learning experiences and the impact of Virtual Learning Environment (VLE) Moodle on students, by survey questionnaire design (annexed), presented by students their own answers that reflect this educational impact in actual learning experiences.

This educational teaching methods help all students to learn more about Moodle lessons it has the positive impact on students learning experience all weekly lessons followed by respected weekly academic time table Moodle lessons that can provide higher educational level to all students by applying software system and Microsoft office helping all students to understanding lessons visually and mentally followed by videos and online education resources links solving the geographical distances it is obviously that these tools for any student with a beginner level can understand at least the lessons aims.

Methodology

This research based on students' questionnaire design (annexed) as a research design, using software system from student's email at the university as a method for research conducting to understanding the impact of Virtual Learning Environment (VLE) Moodle on students 'at their learning experience in the University, this educational method that can help all students to learn out of classroom or out of the university campus nowadays this method in continues helping me and the other students learning by software system educational platform resolving also the geographical distances problems, it is a successful positive method with or without existing COVID-19.

Primary data analysis

From the learned lessons I had understand that primary data is the data that collected by individual researcher effort by using different methods.

primary data can be collected by many different methods and sources, it is not a record data only, it is data collected directly by a research usually it started from the main area of data that will be collected for a particular research, there are many different methods can be collected primary data, but before choosing any data collection source and methods we must thing about research target we must identify it before doing any primary data research, in this report the used method is student questionnaire design by students email from our university campus, now we must know some of primary data research collection methods they are as the following:

- Directly with people interviews it can be anywhere in a company on street in a factory.... etc.
- Truly experiment from an official office for primary data collection methods or a general manager of an international company it can take place by a personally specific date meeting program.
- Questions communications by telephone in scope of survey.
- Email questionnaire design.

In this research primary data collection method is an Email questionnaire design

I will select six specific questions as requested from me related to this research topic taken from my individual student Email questionnaire design which develop answers from students at my university in the same stage of my study:

Please note: all questions are annexed on the end of this research.

In-Class exercise: Questionnaire Design

Student Name: LOUAY ALSAYED-OMAR

Student ID: 1922056

Module Name: Digital Skills and Research Methods

Term 2 Group: 1

4-There is a daily challenge using Moodle in your VLE learning?

☒ strongly agree ☐ Agree ☐ Disagree ☐ Neither

Answer 10 strongly agree 3 Agree

5-How many hours a day you need to learn by Moodle?

- ☐ 1 hour
- ☐ 2 hours
- ☐ 3 hours
- ☐ 4-6 hours
- ☐ more than 6 hours

Answer ⑨ 4-6 hours ④ 3 hours

6- What educational level is Moodle in your evaluation for VLE learning?

-High level of an educational platform

☐ strongly agree ☐ Agree ☐ Disagree

-Moderated level of the educational platform

☐ strongly agree ☐ Agree ☐ Disagree

-Low level of an educational platform

☐ strongly agree ☐ Agree ☐ Disagree

-None of the above

☐ strongly agree ☐ Agree ☐ Disagree

Answer 13 -High level of an educational platform ☐ Agree

7- How effectively does Moodle technology help and encourage VLE learners?

-Poor

1	2	3	4	5
Strongly agree	agree	neither agree nor disagree	disagree	strongly disagree

-Good

1	2	3	4	5
Strongly agree	agree	neither agree nor disagree	disagree	strongly disagree

-Average

1	2	3	4	5
Strongly agree	agree	neither agree nor disagree	disagree	strongly disagree

-Excellent

1	2	3	4	5
Strongly agree	agree	neither agree nor disagree	disagree	strongly disagree

Answer 10 -Good 3 -Average Strongly agree

8-In class learning do you have communication interruptions?

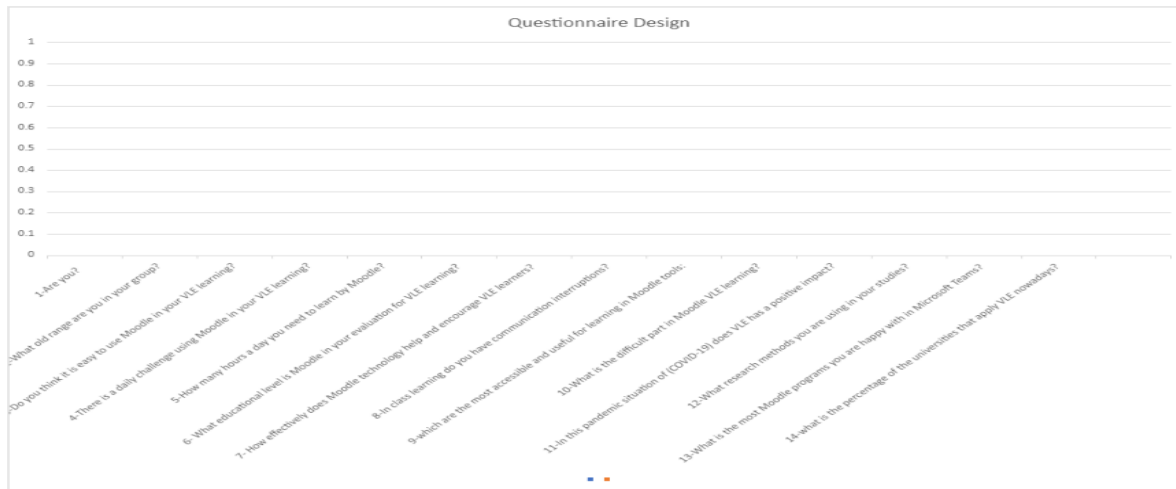
- ☐ Rarely
- ☐ Very rarely
- ☐ Frequently
- ☐ Very frequently
- ☐ Occasionally

Answer 10 Frequently 3 Very frequently

9-which are the most accessible and useful for learning in Moodle tools:

	Strongly agree	Disagree	Some of them	Neutral	None of them
Library					
Calendar					
Email					
Microsoft teams meeting					
My TSD					
Service Desk					
Hwb					

Answer 8 Microsoft teams meeting 5 Hwb



Primary data advantages:

- Primary data is used as a principal research method.
- Freedom to choose any research topic or research aim as in this assignment report the task is about:

The impact of Virtual Learning Environment (VLE) – Moodle on students' learning experience at the University.

- Provide and develop correct answer for research aims.
- Researcher is the owner of data collected by a primary survey.
- Primary data can be updated.
- Researcher can easily can control research directing and design his own methods.

Primary data disadvantages:

- financial cost is considered as vital issue we can do anything about it there is a cost indifferent if it is a small amount or a huge amount.
- Time is not limited in primary data collection it can take months and years to end a research.
- Not all primary data research can be implemented because of unrealistic expectations can came up unexpectedly.

Secondary data analysis

From the learned lessons I had understand that secondary data used in general for a specific research purpose, secondary data available to help researchers for his own data research saving time and money.

Data already has been collected in the past from primary data in aim of starting a research based on data information that has been collected already.

secondary data it can be personal experiences sources, a book or books, newspaper, website, government record and other publishing sources, human resource HR data.

Secondary data advantages

- Access is so easy.
- Cost is so low.
- Saving a lot of time.
- Allow researcher writing his insights through previous results analysis.
- Unlimited resource

Secondary data disadvantage

- Not always specify the researcher needs, it gives general information.
- Researcher is not the owner of secondary data.
- Researcher cannot control the quality of secondary data.

here we can observe that secondary data has two types of research strands:

Quantitative data:

data that be expressed with number for example job hours, a person weight, monthly sales.

Qualitative data:

data that cannot be expressed with number for example colours, feelings and emotions.

from the learned lessons I understand that we living in world that dealing every hour and every day with secondary data it can create a new opportunity in any research it has a positive impact on me as a student that help me to understand the lessons aim together with other previously collected information's.

Ethical considerations and the data protection act

Ethical conduct reflects a collection of moral values, respect at the first-place laws and regulations standards, these moral values which controlling an entity must be highly respected, we must understand if want respect we must give it before we request it, being ethical means having a good personal manner.

There are significant concepts and principles associated with ethical conduct

from our lessons I had understood that I must behave with confidentiality and anonymity when dealing with research data, obtaining consent must be approved from resources honesty and permissions must be required, transparently and friendly dealing, international law of ethical data ownership must be protected and respected (legality), respecting all human rights and dignity, any type of deceptive and false of primary and secondary data must be avoided also restrictions is applied in this case. The Data Protection Act 1998:

In president a strong government restriction is officially in function with all changes known to be in force on or before 14 December 2020, ([Legislation.gov.uk](https://www.legislation.gov.uk))

These changes in legislation include and provide a high official data protection.

Personal data:

Information commissioner's office (ico.org.uk), with a clear principle of 'good information handling', (DPA) gives individuals unique rights to their personal information with certain duties on those entities responsible for processing it. In this report mentioned also four types of DPA information which are:

- Electronic form usually on computer.
- Information processed in a non-automated manner which is a paper records in a filing system.
- Information that forms a part of an accessible record.
- information which are held by a public authority.

Conclusions:

Personal data is protected with a strong control that provide security for all types of data usages and applications any misconduct allegations will be restricted and punished by the official authorities.

Conclusion and recommendation

From primary data and secondary data analysis the conclusion is students has the negative impact in some higher academic lessons they feel it as a mysteries new information's as if it the first-time data contact so they cannot understand it easily.

short period assignments comparative of the lesson's volumes, also some technical communication issues that cannot be ignored are include, in the other side there is a positive impact that we can prove it form class room interactions, students' questions about the lessons, assignments are done by students and the educational aim is achieved but we must acknowledge London Students' Hall for students is real support.

The staff at the London campus provide a professional support service high quality information, advice, guidance, without continuing supporting students the VLE has missing part of success.

please note: this assignment has 2,221 words without questionnaire design that mentioned in this assignment text.

References

[online] Available at: Data Protection Act 1998 (legislation.gov.uk), UK Public General Acts 1998 c. 29,

[online] Available at: What is personal data? – A quick reference guide (ico.org.uk),
Determining what is personal data – Quick reference guide 8 20121212 V1.1,

Appendix

In-Class exercise: Questionnaire Design

Student Name: LOUAY ALSAYED-OMAR

Student ID: 1922056

Module Name: Digital Skills and Research Methods

Term 2 Group: 1

Aims: This exercise is aimed to help you in questionnaire design for your assignment. Please write down your questions that you are going to use in your primary data collection. Try to have different types of questions such as yes or no question, multiple choice question, Likert scale question and open-end question.

1-Are you?

☐- Male

☐-Female

☐-I don't want to answer

Answer 7 Male 6 Female

2-What old range are you in your group?

☐-20-25

☐-30-40

☐- +50

☐-I don't want to answer

Answer ①-30-40②- +50

3-Do you think it is easy to use Moodle in your VLE learning?

☐- Easy ☐-Not easy

Answer ☒- Easy ☐-Not easy

4-There is a daily challenge using Moodle in your VLE learning?

☒ strongly agree ☐ Agree ☐ Disagree ☐ Neither
--

Answer ☒ strongly agree ☐ Agree

5-How many hours a day you need to learn by Moodle?

- ☐ 1 hour
- ☐ 2 hours
- ☐ 3 hours
- ☐ 4-6 hours
- ☐ more than 6 hours

Answer ☒ 4-6 hours ☐ 3 hours

6- What educational level is Moodle in your evaluation for VLE learning?

-High level of an educational platform

☐ strongly agree ☐ Agree ☐ Disagree

-Moderated level of the educational platform

☐ strongly agree ☐ Agree ☐ Disagree

-Low level of an educational platform

☐ strongly agree ☐ Agree ☐ Disagree

-None of the above

☐ strongly agree ☐ Agree ☐ Disagree

Answer 13 -High level of an educational platform ☐ Agree

7- How effectively does Moodle technology help and encourage VLE learners?

-Poor

1	2	3	4	5
Strongly agree	agree	neither agree nor disagree	disagree	strongly disagree

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Strongly agree	agree	neither agree nor disagree	disagree	strongly disagree

-Average

1	2	3	4	5
Strongly agree	agree	neither agree nor disagree	disagree	strongly disagree

-Excellent

1	2	3	4	5
Strongly agree	agree	neither agree nor disagree	disagree	strongly disagree

Answer 10 -Good 3 -Average Strongly agree

8-In class learning do you have communication interruptions?

- ☐ Rarely
☐ Very rarely
☐ Frequently
☐ Very frequently
☐ Occasionally

Answer ⑩ Frequently ③ Very frequently

9-which are the most accessible and useful for learning in Moodle tools:

	Strongly agree	Disagree	Some of them	Neutral	None of them
Library					
Calendar					
Email					
Microsoft teams meeting					
My TSD					
Service Desk					
Hwb					

Answer 8 Microsoft teams meeting 5 Hwb

10-What is the difficult part in Moodle VLE learning?

- ☐-Personal time
- ☐-Term is so short to do the assignments
- ☐-Not compatible in the practical life
- ☐- high education level
- ☐- All above

Answer 9 Personal time 4 Term is so short to do the assignments

11-In this pandemic situation of (COVID-19) does VLE has a positive impact?

- ☐- Yes ☐-No

Answer 8 Yes 5 No

12-What research methods you are using in your studies?

Moodle Library	☐ - Yes	☐ -No
Google - Wikipedia	☐ - Yes	☐ -No
Others	☐ - Yes	☐ -No
Group survey questions	☐ - Yes	☐ -No
secondary data from other universities	☐ - Yes	☐ -No
Education website	☐ - Yes	☐ -No

Answer 9 Moodle Library Yes 4 Education websites Yes

13-What is the most Moodle programs you are happy with in Microsoft Teams?

- ☐-Activity
- ☐-Posts
- ☐-Files
- ☐-Notes
- ☐-Calendar
- ☐-Assignment

Answer 13 -Calendar

14-what is the percentage of the universities that apply VLE nowadays?

- ☐-20%
- ☐-40%
- ☐-70%
- ☐-100%
- ☐-Not at all

Answer 9 100% 2 70% 2 40%

