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Impact of Google workspace for Education platform on developing self-learning skills for applicators of Arabic language departments in colleges of education in Kurdistan region

Researcher. Younis Rahman Rasheed

Baghdad University, College of Education Ibn Rushd

Younis.rahman2102P@ircoedu.uobaghdad.edu.iq

Prof. Dr. Dawood Abdel Salam Sabri

Baghdad University, College of Education Ibn Rushd

daood.a@ircoedu.uobaghdad.edu.iq

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Abstract

The research aims to know the impact of the Google workspace for Education platform in developing self-learning skills for the applicators of the Arabic language departments in colleges of education in Kurdistan region. To achieve the aim of the research, the researcher formulated the following hypothesis:

✿ There is no statistically significant difference between the average scores of the applied students of the experimental group who study practical education on the Google workspace for Education platform and the average scores of the applied students of the control group who study the same subject in the traditional way in the self-learning skills test.

The College of Education, Garmian University in the Kurdistan region, was deliberately tested to apply the research, and it was chosen by random assignment, Division (A) to be the experimental group who study practical education on the Google workspace for Education platform, which numbered (36) students. And Division (B) to be the control group who study in the traditional way, and their number is (36) male and female students. The data was processed statistically using the statistical social bag (SPSS) in its research procedures, and analysis of the result, based on the following means: T-test for two independent samples (T-Test), chi-square (K2), the equation of effectiveness ratio for (McGujian), where the research result showed:

✿ There is a difference between the average scores of the experimental group students of (370.78) and the average scores of the control group students, which amounted to (263.15), as the calculated T-value of (18.153) was greater than the tabular T-value of (2.010) at the level of significance (0.05), and the degree of freedom (62). This indicates

the existence of a statistically significant difference between the average scores of the students of the two research groups in the self-learning skills test and in favor of the experimental group. That is, the instructional-learning design had a positive impact on self-learning skills.

Chapter One

Research Problem:

The researcher believes that it is no secret to anyone that our educational community has been far behind in keeping pace with this tremendous progress in the required manner, which affected the preparation of the teacher and student together.

Based on the foregoing, the problem of the study emerged, as the researcher noticed the development that occurred in education in general, in its various stages, through relying on technology and using electronic educational platforms as an educational system approved in most countries of the world, especially after the Corona (19-COVID) pandemic - including Kurdistan Region, as educators and specialized teachers sought to compensate for the educational loss of students due to the absence of education in the classrooms.

The research problem that the researcher sought to study and know its variables can be determined by answering the following question:

What is the impact of the Google workspace for Education platform on developing self-learning skills for implementers of Arabic language departments in the colleges of education in the Kurdistan region?

Research Importance:

E-learning platforms are an interactive and collaborative learning environment that employs web technology, social networks, and electronic content management with various communication and networking applications, and allows students to access educational lessons regardless of time or place. (Al-Thubaiti, 2020; Al Naimi, Faisal, & Sobh, 2020)

The electronic educational platforms that have been accredited are available to an unlimited number of students all over the world and provide them with an opportunity for distance education. Electronic educational platforms contain interactive sessions and forums between students and their teachers along with study materials and video lectures (Al-Bawi, 2020; Aljazzazen & Schmuck, 2021; Bennouna, Amegouz, & Sekhari, 2020).

Based on the foregoing, the importance of the current study appears. There is an urgent need to search more about e-learning platforms, especially for the university level. To the knowledge of the researcher, the scarcity of previous studies that dealt with electronic educational platforms in the Kurdistan Region.

The researcher finds that the Google workspace for Education platform is very important in the educational process, as it takes care of the student and makes him the center of it. As it is directly affected in raising the educational capabilities of students, improving their performance, and helping to increase their academic achievement because it provides a comprehensive and integrated plan for educational content and educational materials provided to students.

Hence the need for self-learning with its various methods. It is no longer useful for a person to stop learning once the school years are over (Sabri, Hallous 2009, 362)

Self-learning is a positive human dimension represented in human relations that helps a person to grow. Accordingly, the learning process must be based in essence on the principles and concepts of human relations rather than the principles and concepts of the subject matter and cognitive processes. The role of the teacher in teaching is to be the mentor who helps the students to test what they learn when and how, as well as helping him to form personal relationships with the students in order to achieve his growth (Al-Maliki, 2016 98). From this, the researcher concludes that the university stage as an educational and pedagogical institution is no less important than other educational and pedagogical institutions, rather it is considered complementary to it, and closely linked to it, as it works with the principles of purposeful education in all its dimensions in order to develop their skills, knowledge and scientific and practical experience, and works to raise their efficiency in different areas of life. (Sabri, and Radhi, R.I.2021).

Research Objective-:

This current research aims to identify the effect of the Google workspace for Education platform on developing self-learning skills for the applicators of the Arabic language departments in the colleges of education in Kurdistan region.

To achieve the goal of the research, the researcher formulated the following null hypothesis:

There is no statistically significant difference between the average scores of the applied students of the experimental group who study practical education on the Google workspace for Education platform and the average scores of the applied students of the control group who study the same subject in the traditional way in the self-learning skills test.

Research limits

The research is limited to: Fourth-grade students, Department of Arabic Language, College of Education, Garmian University in Kurdistan Region, the academic year 2022-2023.

Define terms

Google workspace-

It is a new productivity toolkit provided by Google that brings together (Gsuite) locked tools from Calendar, G-Mail, Drive, Documents, Presentations, Meet and Keep, Forms, Sites and Spreadsheets. Workspace, g. (2021, 3 1.((

As for the definition of the researcher procedurally: a set of integrated procedures of solutions and applications carried out by the researcher, which enable users to create their applications and programs, store and access them at any time and from anywhere and using various devices, whether desktop, portable or smart devices for self-learning.

Chapter Two

Google workspace platform:

The evolution of Google workspace

Google was founded as an official company on September 4, 1998 by Larry Page and Sergey Brin. On October 6, 2002, Google introduced Brands and Experience in which it used a range of presentations and collaboration and communication tools useful for business. From 2006, Google began issuing and launching a service and a set of applications for companies and institutions, and these include Gmail, Google Talk, Google Calendar and Google Page Carrier, which was later replaced by the Google sites application. (Workspace, g. 2021, 31)

In (2006) Google introduced a service known as (G-suite), which provided Google programs and applications for enterprises to facilitate the work of the workgroup, and (G-suite) offers the same free applications

In 2007, Google introduced a version called (Google Apps premier editin), which differs from the Google Ice Premiere ad free version, that it offers a storage capacity of (10 MB) per user and a cost of 50 dollars. Google has added some features to this app which include Google Docs and Google Spreadsheet. In 2008, Google added the Google Sites application, and in 2009 Google launched the Appsync application for Microsoft Outlook, and Google announced the launch of services that include (Bott, E. 2021, 61). [Gmail, Google calendar , google docs and google talk].

In 2010, Google opened what is known as the [Google Apps market place], which is a storage space from the Internet for companies and businesses. Google has provided a version for the government known as [Google Apps Government], which is designed to meet the needs of the public sector. In the year (2011) Google announced the adoption of subscription and cash payment procedures for

companies that consist of more than (10) specific users, and each user pays an amount of (5) dollars. In 2012, Google launched the Google vault service, as well as Google Drive. In 2013, Google unified the storage spaces between the (Drive) and (Gmail) services and gave the subscriber or consumer and customers (30 MB) (Singleton, C. (2021, 5 5).)

In 2014, Google launched a service known as the [Google Apps Referral program], which offers participating individuals a saturation bonus of \$15 per application. In 2016, Google released the first hardware component for a computer, the Hardware prodvet. But with the development that took place, Google changed the name (Gsuite) to (Google workspec) in 2020, which is a bundle of productivity and collaborative pages, programs and tools on the Internet. These services are initially offered in exchange for a monthly subscription to Google - which saves a lot of time and effort for business owners, to express their own performance identity. And Google Workspace is a service identical to the Gsuite service, with a number of changes that Google added to it throughout the year 2020 and it becomes part of the Microsoft 365 service, (Abraham, R. (2021, 4 31)). Google Workspace is a new productivity toolset from Google that brings together locked Gsuite tools. In 2020, Google renamed (G-Suite) to Google Work Suite. In the same year, Google had about 6 million companies and 120 million subscribers. In 2021, Google announced that Google Workspace would be available to users and consumers free of charge. (Singleton, C. (2021, 5 5).

What are Applications of Google workspace

Google Workspace has provided a lot of applications, which are as follows:

- 1- Gmail address
- 2-Google meet, a program designed primarily for different organizations
- 3- Google chat, which is a service or application that is designed to be an instant messaging application
- 4- Google keep, a note-taking service provided by Google
- 5- Google Drive - (Google Disk) is a service provided by Google for a cloud storage process
- 6- ICeep - Notes and Lists
- 7- Google Docs that enable you to create, modify and process data
- 8- Spreadsheets – Google slides, which is a presentation of the application found in Google Workspace
- 9- Presentations - power point
- 10- Forms - Forms or known as Google Forms - which is one of the free Google applications
- 11-Google sites
- 12-Admin (Supervisor) Program Manager (Workspace, g. (2021, 3 1)

Chapter Three

Previous Studies.

In this chapter, after extensive readings of previous research and studies, the researcher dealt with the subject of the current study, in order to benefit from its methodology, and to know its strengths and weaknesses, and the results it reached. These studies constitute a wealth of knowledge that provides researchers with what facilitates the requirements of scientific research. The knowledge we obtain from previous research and studies helps us in determining the importance of the problem and in the stability of the tool and in linking the results of the scientific research with the previous studies that he was able to view, and which helped him in determining some of his research procedures, and in giving a perception of what the previous studies had led to in the subject of research based on the platforms, which received the attention of nations at all levels, were taken over by researchers concerned with all its aspects.

•Al-Masry and Al-Ashqar study 2018: "The effectiveness of the educational platform Edmodo in developing achievement in science and the trend towards it among tenth grade students in Palestine

The aim of the study: "The study aimed to identify the effectiveness of the educational platform Edmodo in developing achievement in science and the trend towards it among tenth grade students".

- The stage in which the study was conducted: the basic stage.
- Place of study: State of Palestine.

Research sample: The sample consisted of 40 students.

Study Methodology: The experimental method was used.

- Statistical means: The researchers used eta square d, n^2 .

- Results of the study: The study reached the following conclusions:

-There are statistically significant differences in favor of the experimental group using the Edmodo platform in developing achievement.

-There is a statistically significant difference in favor of the experimental group using the Edmodo platform in the direction towards the material.

(Al-Masry and Al-Ashqar, 2018)

2. Lutfi's 2019 study "Using the Google Classroom educational platform to teach a proposed e-course in healthy nutrition for the disabled and its effectiveness in developing cognitive achievement and attitude among learners"

•Objective of the study: The study aimed to prepare a proposed electronic course on healthy nutrition for the disabled and its effectiveness in developing cognitive achievement and attitude among educated students.

- The stage in which the study was conducted: Undergraduate
- Place of study: Arab Republic of Egypt

Research sample: The research sample consisted of 52 male and female students

Study Methodology: Descriptive Approach

- Statistical means: SPSS software package, then applying Equation η^2
- Results of the study: The results showed that the proposed e-course using a platform using the Google Classroom educational platform has a significant impact on developing achievement and the trend towards the electronic course. (Loutfy, 2019)

Chapter Three

Research Methodology:

To achieve the goal of the current research, which is to identify the impact of a platform in developing self-learning skills for applied students, the researcher adopted the experimental approach (Atawi, 2009: 192.)

A/ Experimental design:

Experimental design is a plan of action for how to carry out the experiment, that is, planning the conditions and factors surrounding the phenomenon under investigation in a certain way and observing what happens. It is known that experimental designs in the educational field do not reach perfection in control (Al-Jabri Sabri, 66, 2013). Therefore, the researcher adopted one of the designs with partial control, which is the design of the non-random choice control group with two tests, pre and post tests, and Figure (1) shows this.

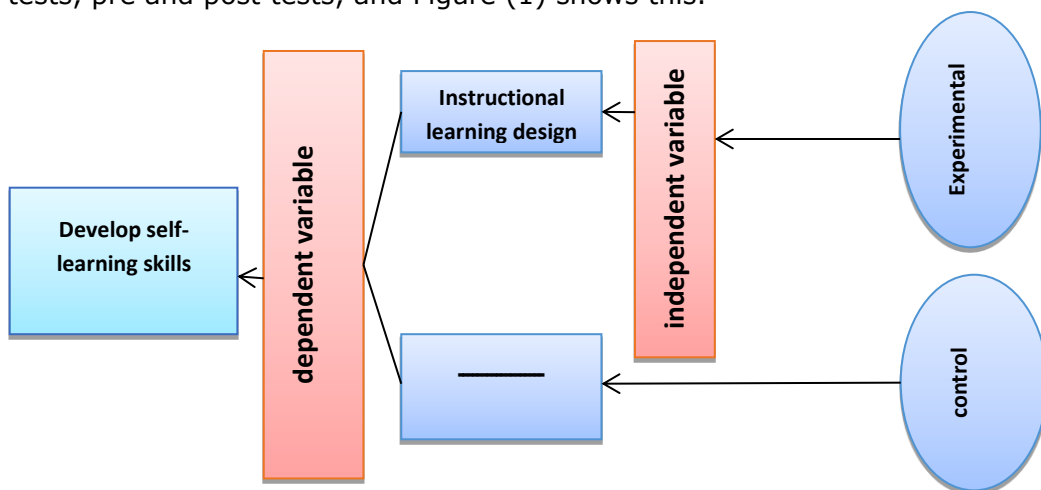


Figure (1) The experimental design adopted in the research and prepared by the two researchers

B/ 1- Research Community:

Determining the research community is a very precise step, as the research procedures and design, and the adequacy of its results depend on it. The community refers to the total elements that have common characteristics that can be observed (Shafiq, 2001: 184). The community of this research consisted of

students of the fourth stage in the departments of the Arabic language in the faculties of education in the public universities of the Kurdistan region for the academic year 2021-2022.

2- Research Sample:

The researcher visited the Department of Arabic Language at the College of Education / University of Salah al-Din, and found that the students of the fourth stage were divided into two classes (A and B), and their number was (72) male and female students. The researcher randomly chose (*) class (A) to be the experimental group, and the number of its students is (36) male and female students. Class (B) was the control group, the number of whose students was (36) male and female, and after excluding the (8) students who failed, the number of students - the final research sample - reached (64) male and female students, and the table (1) shows this.

Table (1) The students of the research sample and their numbers

stage	class	group	number of students	number of excluded students	Final number of students
fourth	(A)	Experimental	36	5	31
fourth	(B)	control	36	3	33
total			72	8	64

C/ Equality of the two research groups (internal safety of the experimental design):

1_ Chronological age of the students in months¹:

2_ Intelligence:

3- Linguistic ability:

4_ Pre-test for self-learning skills: (Sabri, A and Abdullah, 2021)

For the sake of the safety of the experiment, the researcher was keen to isolate the effect of the extraneous variables by controlling them, and the following are these variables, and how to control them:

1. Processes related to maturity:

2. Differences in Sample Selection:

3. Experimental extinction:

4. Statistical regression:

5. Impact of Experimental Procedures:

A- Scientific subject:

b- Distribution of lessons:

¹ The researcher obtained the information about the students through a form that he prepared and distributed to them.

Research Tool:

A- A note card to measure self-learning skills:

One of the requirements for constructing the current educational design is the preparation of a research tool, which is (a note card), and the researcher built this card based on the scientific steps in construction:

2. Identification of sub-domain skills:
- 3- Determining performance indicators for each skill:
- 4- Validity of the tool (note card):
- 5- Stability of the tool

4- Statistical Means:

The researcher used the statistical social bag (SPSS) in his research procedures, and analyzed the result, based on the following means:

- A- T-Test
- B - Chi-square (K2)
- C- Equation of the effectiveness ratio for (McGujian)
- D- T-test of two related samples

Chapter Four

Presentation, interpretation and discussion of the results

Research Results:

In this chapter, the researcher will present his findings in light of the research objective, hypothesis and interpretation, as well as conclusions, recommendations and suggestions, as follows:

First: the result of the research and its interpretation

To verify the effectiveness of the Google workspace for Education platform in developing self-learning skills for fourth-stage students in the Arabic language departments (applicants), the researcher verified the validity of the hypothesis

There is no statistically significant difference between the average scores of the applied students, the experimental group, who study practical education on the Google workspace for Education platform, and the average scores of the applied students, the control group, who study the same subject in the traditional way in the post-test self-learning skills.

To verify the validity of this hypothesis, the researcher used the t-test for two independent samples. The results indicated that there was a difference between the mean scores of the experimental group students (370.78) and the control group students' average scores, which reached 263.15. The calculated t-value of (18.153) was greater than the tabular t-value of (2.010) at a significance level of (0.05) and a degree of freedom (62). This indicates the existence of a

statistically significant difference between the average scores of the students of the two research groups in the self-learning skills test and in favor of the experimental group. That is, the instructional-learning design had a positive impact on self-learning skills; Thus, the null hypothesis is rejected, as shown in Table (1):

Table (1) The results of the T-test of the application of the post-test self-learning skills

group	number of sample members	Arithmetic average	standard deviation	degree of freedom	T-value		Significance level
					calculated	tabular	
Experimental	31	370.78	16.812	62	18.153	2.010	0.05 Statistical function
control	33	263.15	37.769				

Interpretation of the results:

The researcher attributes the previous result to the following reasons:

1. Education based on the Google Workspace For Education platform provided the opportunity for students to practice higher thinking processes. It was noticed their passion for design applications, and their desire to use it, by directing their thinking, and changing its course from the framework of logical thinking, and traditional restrictions to thinking in multiple directions.

2. The nature of organizing the content of the educational material according to the (Google Workspace For Education) platform, and analyzing it in the form of problems and tasks related to the students' lives and their reality. Which helped stimulate their thinking, and provided them with more imagination, initiative and creativity, making the student put potential assumptions and challenge ideas.

Third: Conclusions:

In light of the presented results, the researcher concluded the following:

1. There is an urgent need for students applying in the Arabic language departments for modern methods to develop their teaching skills, including education based on the Google Workspace For Education platform.

2. Education based on the Google Workspace For Education platform contributed to encouraging students to freedom of opinion, exploration, asking questions, positive participation, and enhancing the spirit of positive competition among them.

Fourth: Recommendations:

1. Relying on the Google Workspace For Education platform as an important part of training applied students in Arabic language departments/in colleges of education, because of its effectiveness in developing their self-learning skills.

2. The necessity of developing students' teaching skills in practical education lessons using the Google Workspace For Education platform in order to form creative people and shape them well.

Fifth: Suggestions:

To complete this research, the researcher suggests the following:

1. Conducting a study to identify the effectiveness of the (Google Workspace For Education) platform in other variables such as: creative thinking, tendency towards subject matter, and others.

2. Conducting a study to identify the effectiveness of education based on other platforms in developing speaking and writing skills.

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