A PROPOSED METHODOLOGY FOR TEACHING THE FOUNDATIONS OF DESIGN COURSE VIA ELECTRONIC MEDIA
منهجية مقترحة لتدريس مقرر أسس التصميم عبر الوسائط الإليكترونية

Dr. Howida Ahmed Abdel Hamid Abdel Ghaffar
Lecturer at the Faculty of Home Economics, Department of Clothing and Textiles
Graduated from the Faculty of Fine Arts, Department of Mural Painting, PhD, Department of Art History

د. هويدا احمد عبد الحميد عبد الغفار
محاضر بكلية الاقتصاد المنزلي قسم الملابس والنسيج
تخرج من كلية الفنون الجميلة قسم التصوير الجداري دكتوراه قسم تاريخ الفن

howydaabdelghaffar69@gmail.com

ABSTRACT

In the context of the new circumstances in the world due to the Corona pandemic, it was necessary to teach remotely through various electronic means of communication. The researcher chose two ways to implement her educational material (design foundations). They failed due to the period of stone and the inactivity caused by the pandemic to teach the basics of design in a renewed way to encourage her group from the first year at the Faculty of Home Economics, and she taught the course through the (Telegram & WhatsApp)
After the completion of teaching the applied part, the researcher made a form for judging the completed artwork, and presented the artworks for evaluation by the arbitrators.
The most important results: the success of distance learning in teaching a course on the foundations of applied design.
Recommendation: To generalize this method to the rest of the technical subjects taught in the college.

KEYWORDS

Methodology; Pattern -plan- design -project -sketch; E-Learning

الملخص

في ظل الظروف الجديدة التي يشهدها العالم بسبب جائحة كورونا، كان من الضروري التدريس عن بعد عبر مختلف وسائل الاتصال الإلكترونية. اختارت الباحثة طريقتين لتنفيذ مادتها التعليمية (أسس التصميم). فشلوا بسبب فترة الحجر والخمول الذي تسبب فيه الوباء في تدريس أساسيات التصميم بطريقة متجددة لتشجيع مجموعتها من السنة الأولى في كلية الاقتصاد المنزلي، وقامت بتدريس الدورة من خلال(Telegram & WhatsApp)

بعد الانتهاء من تدريس الشق التطبيقي، قامت الباحثة بعمل نموذج للحكم على العمل المنجز وعرض الأعمال الفنية على المحكمين لتقييمها.

أهم النتائج: نجاح التعلم عن بعد في تدريس مقرر على أسس التصميم التطبيقي.

التوصية: تعميم هذه الطريقة على باقي المواد الفنية التي تدرس في الكلية.

الكلمات المفتاحية

المنهجية؛ النمط ـ المخطط ـ التصميم ـ المشروع ـ الرسم؛ التعلم الإلكتروني

1. INTRODUCTION

In the context of the health conditions that the globe and the entire world have been through (the Corona pandemic), which was necessity for this conditions of the quarantine in order to preserve the safety of the human body, Preserving the integrity of minds, therefore to access the student's education in a way that doesn't require attendance to the educational establishment, which might cause damage.

The governments of the world have taken precautionary measures in order to preserve humanity from this deadly disease, and the ministries of education have required to develop alternative plans to access education for procedures that succeed in learning online, and since teaching theoretical courses requires reading and comprehension, followed by achievement tests; In the applied courses, we had to develop new ways to teach these technical courses and take them out of their stereotyping. The specialists had to stand on renewable ways to deliver information from videos to implementation and display the method of work through real-time photography while working to deliver information to students.

Dealing with communication applications resulted in Successful experience in applying first-year students in the Faculty of Home Economics A successful experience in which paintings were made that were completed at a decent level. The lack of presence did not diminish anything from the completion of the technical work, just as it can be implemented if the times return to their regularity in the study and the experience gave the student the opportunity to work with the eagerness to complete the proficiency.

The two most popular applications were dealt with among Internet surfers and students, especially because of the ease of dealing between young students and do not require the

(Telegram – WhatsApp)

A large storage space inside their mobile phone and the high quality of the electronic network to facilitate communication with students, which required the researcher to choose them to implement the new experiment. The researcher used several means to deliver the material between the theoretical explanation and the use of the following means through the programs

Power point - Helping videos -Voices Chatting Online- Photoshop

This is because the students of the first year of the college have a basics of design course, which is one of the main materials for ramification in the second year, so it was necessary to take care of the applied part and make a renewal in it, which had been infected in the previous year, as happened to all courses due to the arrival of the pandemic, which was considered a new thing in the world to occur stone Suddenly the wheel of life stopped continuing throughout the domains

The researcher was interested in studying the current conditions and finding tools to deliver the full course this year after what happened to her in 2019 to reach a better result in that year 2020 to be taught to the first year at the Faculty of Home Economics. With the current studies for the development of education, students applying for higher education have experience dealing with computers and some graphic programs (Photoshop), so the idea was exploited in renewal with the help of talented students in the renewal project in the application of the practical course and the resulting complex artwork where a preparatory pattern was made before Proceeding with the completion of the collected artwork to gather the objectives of the implemented course in one artwork consisting of a Canson board with an area of 50 x 35 executed in gouache colors as a single panel to be taken out on a black hardboard as a frame for the completed artwork.

1- Color circle: where the student learns how to mix gouache colors and learn hot and cold color combinations so that he can use the tools and the method of coloring

2- Line and color, from which the student learns how to make a relationship between the different types of fonts and their formula in a topic in which he tries the method of coloring that he understood in the previous point.

3- Diversity in composition and harmony of shapes in it The student learns how to distribute shapes between miniaturization, magnification, overlapping and access to make a harmonious composition containing one of the types of composition

4- Optical illusion, in which the student acquires the color movement and its relationship to the imaginary movement through the animation of the artist Fazarelli's arts.

5- A sense of color transparency, which reconfirm on movement in the composition by creating chromatic accumulations of shapes, forming a chromatic mixture that brings about the idea of transparency.

Those were the topics that revolved around the new complex design that was created in cooperation with the students and the researcher. After completing the experiment, the researcher made a questionnaire to survey the opinion to show the extent of the success of the experiment. After referring to the people of knowledge about the experience and its arbitration, it produced a new successful artwork with the testimony of a group of specialized professors who praised the new experience and what the researcher called for documenting it to confirm the extent of the success of the experiment and to emphasize the importance of the distance learning experience under bad conditions.

The experiment is also suitable for teaching in the time when the return to follow-up life and its regularity, and that the interested student does not lack his right to benefit and performance, and to ensure that the technical work is completed in good ways, except through e-learning or formal education.

PREVIOUS STUDIES:

- **A** study came in the name of **employing e-learning to enrich the aesthetic experience of the students of the College of Fine Arts** 2018, by researcher Wejdan Najah Abdel Razek Al-Shammari, which was published in the Arab Journal for Educational and Psychological Sciences. It has touched upon the study of the impact of contemporary technology on education in the faculties of fine arts, and the new vision it has brought to tablets and graphic tools from a new vision between what it was like to learn art and what it become after the high tic.

  The research produced an applied technical experience for the researcher, that it is from teaching the student on the latest technological devices, Enable the learner to create a digital artwork One of the recommendations of the researcher was to take applied experience and work to develop contemporary artistic work through training learners on devices and technology.
- **Benefiting from the habits of the mind in teaching plastic arts from a distance**
- **For students of blended e-learning** (open) in the Riyadh program
- Children during the Corona pandemic period
- A.M.D. Raja'i Abdullah Ibrahim Abdel-Gawad
- Assistant Professor of Art Education
- Child Education Department/Girls College
- Ain-Shams University, the research was published in the Journal of the Faculty of Education, Ain Shams University, Issue 45, Part One, in 2021, the research was about Take advantage of
- Habits of the mind in teaching plastic arts from a distance for students of blended e-learning
- (Open) in the kindergarten program during the period of stopping the Corona pandemic, and the research sample was

- (481) studied, and used the experimental method, and the results resulted in achieving benefit from the habits of the mind in teaching plastic arts from a distance for students of blended e-learning.

RESEARCH PROBLEM:

The research problem can be formulated in

1- How to bring about a renewal in the modularity of the material in the regular period before the pandemic.

2- How to get the students' attention due to the indolence caused by the quarantine period and the inactivity caused by the pandemic.

3- How to develop the potential capabilities to enable the student to have applied assimilation outside the educational establishment and through communication networks.

4- What are the preferences available to sharpen the minds of students for successful performance through social networks?

5- What are the best and most popular programs for dealing with Internet surfers, especially students.

6- What are the tools that help develop the skill ability to implement an applied material through social networks?

RESEARCH IMPORTANCE:

1- The research contributes with a new idea that can be applied to the subject to break the stereotyping of teaching the subject in the same way since the subject was assigned to be taught to college students.

2- Training on applied materials through communication networks contributes to the formation and increase of the imaginative mental abilities of students of technical subjects

3- It sheds light on the importance of positive interaction with students through social networks to connect the full and uncompromised learning process under bad conditions (Covid 19).

4- Adopting new ways to develop distance learning and develop free artistic thought among students by following up through social networks

5- An attempt to give students the talent of immediate thinking and develop their skills to connect to creative designers.

RESEARCH AIMS:

1- Whenever the teacher is again, the matter would bring about a change in the methods of teaching and performance of students

2- Distance education is of paramount importance in light of the circumstances the world is going through, and therefore those in charge of teaching should be concerned with teaching methods and renewal in them.

3- Guidance for successful competition among students through collective thinking through follow-up through social networks between the subject teacher and students.

4- Developing the technical capabilities of students by supporting distance education and enriching technological education and its role in the technical performance of students

RESEARCH HYPOTHESES:

1- Through observation, there were statistically significant differences between the average scores of students through cognitive achievement after follow-up through the programs that were used in distance learning.

RESEARCH METHODOLOGY:

1- The research follows the descriptive method

search limits:

2- Human limits: first year students of the Faculty of Home Economics

3- Time limits: the second semester

search tools:

A questionnaire form to evaluate the designs implemented by design professors and specialists in studying the material.

KEYWORDS SEARCH TERMS:

METHODOLOGY

The researcher means by methodology what he resorts to in coordinated means to obtain an intended result, and what plans he draws to achieve the desired.

TRAINING

It is a planned activity that aims to bring about positive changes in knowledge and skills in order to help individuals take the tasks necessary for them now and in the future in order to achieve the goals of the organization (Mohammed El-Sayed El-Badawy, 2013).

PATTERN -PLAN- DISGNE -PROJECT -SKETCH

which is the schematic diagram of the design work with its parts and elements assembled into one work that represents its shape and appearance.

E-LEARNING

It means the process of self-education through smart phones and computers only through the Internet or via CDs, which allows the learner through which to learn at anytime and anywhere. This includes education through texts.

PDF - TEXT LECTURES

It means the lecture of the course collected in one file that the student can access at any time by downloading it to their own phones.

VIDEOS

They mean short films that help the student learn methods, except through the teacher's portrayal of himself during the performance or films through the programs.

YOUTUBE - PINTERST

AUDIO CLIPS

The researcher means the clips that were recorded through the two applications used within the applied experience of the course:

Virtual graphic via plugs –ins

It means the researcher who was dealt with in order to collect the design idea:

FLAT PATTERN

The role of positive communication in the educational process

The use of the Internet in the recent period is considered one of the most important data of the era in culture and types of social networks such as Facebook, Twitter, Google, and others that are most used in that current period, and this stems from the lack of many life activities in the period the world is going through from the Corona pandemic, which made many Countries are taking precautionary measures from curfews and closing many places of work, schools and universities, and the method of communicating via the Internet has become the only way to continue aspects of life.

The youth group, according to many studies, is one of the most popular groups to use the network and these sites. In order to identify the role of communication networks in supporting education and their effective role in overcoming the defects of education among university students, many survey studies were carried out to reach the negatives and positives of this communication.

She also indicated that the use of social media in education as online platforms in academic environments that range from all levels of study has great benefits more than its disadvantages, as it is possible to control some media in the damages of these networks.

Social media has become more user-friendly for all ages, as most are able to understand and use social media in public life, communicate with others and access the desired information.

Education remains a controversial topic that has been around since 2010 and people have continued to debate whether these types of media have indispensable benefits. At this point in time, students in most developed countries are active social media users.

 We have realized how important this is in the recent period since 2019, as direct human contact has become dangerous to the pandemic and that we have had to learn digital citizenship skills, and integrate these tools into the classroom [1].

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And that technology can be used in the classroom and becomes positive. Technology can support and improve the learning environment. And because technology has become the most common in the world today, we have to develop, support and encourage these technological skills among students, as it has become the language of the era that has largely overwhelmed and the presence of the mobile phone with a touch feature, which helps the student to successfully access and deal with all applications and thus be very useful in the classroom scholastic. Thus, students can easily access this resource anywhere, anytime, and gather knowledge.

To clarify the researcher's experience, she gave an account of the types of e-learning that she deals with

TYPES OF E-LEARNING USED:

The researcher started work starting with the blended education: where the beginning of the study period was with the attendance of university students in a daily exchange manner. Only one lecture per week was organized for them to collect the two parts of the material from theoretical and practical within one intensive time lecture, then follow-up through simultaneous education to complete the desired educational outcomes of the course.

Then she moved to another type of e-learning, which is **simultaneous education,** which includes interaction from the teacher with the student via the Internet, via either audio or video communication through chat and instant messaging, which is what the researcher practiced with students through the mentioned means (Telegram - WhatsApp), which is Which enabled the researcher to record the lecture and send it to the students to remind the previous explanation of this in addition to follow up all the activities required of the students and correcting their mistakes.

Then the researcher used **interactive education** through deliberations between the students and the teacher to exchange visions and Point of views for the success of the new creative experiment, which gave the experiment what the researcher meant to sharpen the students' attention and interest in it, as the students gained their freedom to express their opinions in the artistic work before completion.

By working with students during the semester, the researchers moved to **collaborative learning**, where students were divided into groups, and each group had a leader, where understanding knowledge for implementation was exchanged based on the desired objectives of the course.

Then the practical side began using (Photoshop) to make the preliminary step of the design for a good achievement, a move to exchange experiences among them by communicating with the teacher via the Internet through Telegram to clarify how to accomplish and deal with WhatsApp for follow-up [1].
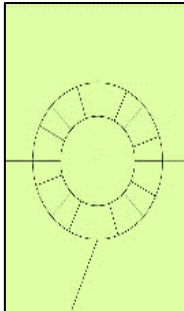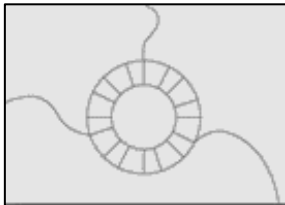
Telegram is an instant messaging application that enables the individual to have public or private chat over the Internet. It is easy to use and safe compared to its competitors. It is based on cloud storage, meaning that the data is stored with the program and not on the device. One of its advantages is that it can be used in many devices as the program accommodate Unlimited number of members when creating a private channel, which made it flexible in dealing with it, and in telegram channels, files or any number of photos and videos can be shared and shared with those who join the channel [2]

Or about WhatsApp, which was dealt with by the researcher by following up with the students, as there is no one who does not use this application, as it is not limited to text messages only, but it preserves the privacy of the person dealing with the application, and it is possible to create groups on the application and it is available for all smart phones, which is easy, stable and quick to respond Which made the researcher's choices [3].

RESEARCHER'S EXPERIENCE:

DETAILS FLAT PATTERN- DESIGN M

The idea started with the researcher, with the aim of shortening the possible time and providing and overcoming difficulties for the students so that they get the desired information in the best way and understand the data of the course and align it with the technical ability of the students and encourage them to make a distinguished artwork that brings together the required group of works from them in one new successful idea.

Details	flat pattern-	NO.
		1
		2

The researcher has been teaching the subject with a single modality since the subject was assigned to her since 1995, where the paintings were done one by one on a single sheet and with the pandemic conditions, it was necessary to create the idea of moving stagnant water and refreshing the students' minds with a new idea that draws attention for the student to work carefully to achieve it

The preparation for this idea was through the possibility of the presence of students who are able to deal with auxiliary programs via the computer.

The researcher's experience was with the students of the first year of the Faculty of Home Economics, the second term, as the course imposed on them during that period was the researcher aware that the students may have little technical experience as (It is not enrolled in the college by abilities), but she worked on simplifying the information as much as possible. Due to the difficulty of gathering to attend the university due to the conditions of the pandemic and the circumstances of education decisions at that time in order to preserve the general health of students.

The researcher used Photoshop as an initial step to work on the idea of assembling artwork, as the program allows making simple preliminary drawings for the final shape, through a group of students who have the ability to deal with these programs.

After completing the first step, the researcher began to explain the artwork step by step, starting with

1- The color circle, which contained 24 colors and was explained through direct explanation with registration via the Internet by the means that were agreed upon with the students, which is Telegram and WhatsApp, and a video presentation of the methods of preparing colors

she noticed the differences between the students, which were clarified as a result of a questionnaire of differences in comprehension in terms of the method of coloring and the successful distribution of colors in terms of arrangement.

2- After the completion of the first step, the second panel, the line and its relationship to color, and in the same way, with following-up, the video was recorded via the Internet. It was noted through the questionnaire evaluation that the students perceived this point with the ease of its implementation and the success of its implementation.

3- The third step: the part of optical illusion and its purpose was to achieve the colors and their complement or color and opposite so that the student achieves the expected movement from the relationship of the two colors executing a painting similar in shape to the works of Fazarelli With the selection of the colors for each student separately, it was noted through the evaluation of the questionnaire that the students succeeded in implementation with approximate degrees between appropriate and neutral.

4- The fourth step was the distribution board of shapes through diversity and harmony among them in terms of size, repetition and movement of the shape within the space available to it in the painting and a relationship with the remaining parts of the painting in terms of color composition, which is what most students succeeded in accomplishing and it became clear that the hand increased experience in coloring and the events of successful color differences Between the background and the distribution of shapes

5- The fifth and final step is transparency, which is to link the rest of the existing forms in the painting and come up with information for new color combinations through a cumulative installation of the shapes together to be a color composition, and that the painting has been installed so that it has a good and successful format. Between the fourth and fifth panels in the distribution of shapes, the work was done as before. What is the increase in the follow-up time in completing the two panels almost in parallel through online conversations - the students' exchange of experience with each other - downloading the completed design after its completion to clarify the experience with the explanation online. The evaluation varied between the differences as it came Neutral 60% to 40% suitable

6- The researcher noticed the success of the students' response together and their keenness to exchange information in the performance and the completion of artistic works. It facilitated the exchange of information and cooperation over the network, which had a significant impact on the successful completion of the work.

7 - Follow-up of the students was continued until completion through the two means used to communicate to reach the successful result with each student through collective dialogue via telegram from each student who succeeded in understanding and achievement to communicate the collective mentality in thinking and the success of the rest of the paintings.

TECHNICAL ANALYSIS OF DESIGNS:

Fig. (1)

Fig. (2)

Fig. (3)

The first design: the painting started from the middle, and the colors of the circle in the middle board reflected the line and color to balance the painting. Then the student continued and chose to mix between two elements within the two panels of transparency and the various formation. Research gives the painting regularity in the rotation of the painting around the axis of the color circle between the top of the transverse design downward to the vertical design in the direction of the design with oblique lines in the good corner of the painting to balance the cold and hot masses in the painting using color and complementary

The colors used are gouache colors

The second panel The student divided the panel with intersecting diagonal lines. The panel was divided into two opposite hot blocks with the work in the middle. There was a balance between the hot and cold blocks, despite the clarity of the hot block, which is the dominant one. The student moved to neutral colors with cold colors to complete the rest of the elements of the painting. Randomly distributed gives movement in the painting and vitality

The colors used gouache colors

The third panel The student divided the panel into four equal parts across the color circle, which is in the middle of the panel with the distribution of calm backgrounds of color in degrees with white, then choosing the white color as a background for the optical illusion panel by selecting a somewhat stereotypical image in the line and color, updating a side of the panel that encapsulates the predominant cold-colored characteristic in from one side to the other, it was dominated by the characteristic of hot colors, as it succeeded in creating clear transparency with a variety of sizes of the drawn shape.
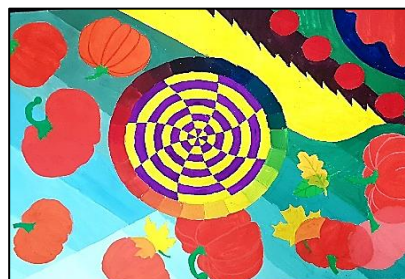

Fig. (4)

Fig. (5)

Fig. (6)

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The fourth panel, the student chose to collect the parts of the panel on a semi-uniform background with the colors inverted from light to dark and vice versa, and made the upper end of the line and color panel, which contains the combination with hot colors with a few cold colors for equilibrium events in the painting and made the optical illusion in the middle of the panel to attract the viewer's attention and distribute the element Her (the gourd and leaf) circle the circle of colors in a circular motion to emphasize the look at the center of the painting

Fifth panel: a fair division between the parts of the panel and its intersection with the color circle with an increase in the area of the color circle to emphasize its balanced distribution of all the colors of the color circle, which was divided in an equal way in all the panels, the mixture between hot colors and cold colors, which made the painting lively with the regular movement in rotation around the center of the painting .

The sixth panel: The student chose 60/40, a division that was not entirely successful, but the student worked on distributing the color plan in a way that succeeded the painting, where color intensified and an opposite in the optical illusion panel. The student used most types of fonts to organize the painting in contrast to the diversity of the distribution of the shape, but she kept enlarging the size of the distributed element in the painting to create a chromatic balance with the repetition of the negation of time in the line and color part, which is equivalent to the shape distribution panel

Fig. (7)

Fig. (8)

Fig. (9)

The seventh design: The student was inspired by the paintings of the international artist (Van Gogh) and the painting was divided into three unequal parts in order to create a diversity of spaces within the painting. The optical illusion painting was made at the top of the painting to create random movements comparable to the movement of the artist's brush and used line and color in the center of the painting Inspired by one of the parts of the artist's paintings with the use of the flower and the mastery of drawing it in its details, updating the diversity in shape and creating transparency between the leaf and the flower with a successful creation between the color relations between hot and cold with the apparent yellow color, which made the painting full of intense vitality

The eighth design: The student relied on the division of ٤٠/٦٠ within her painting. The student made a successful distribution between the linear movement within the painting as a whole and the diversity of the elements of the painting. The student dealt with the distribution of colors between hot and cold, between the background and shapes distributed in a spiral manner, looking for shapes to turn and revolve around each other on the two parts of the lower panel

The ninth design was distributed ٪٧٠/٪٣٠ of the panels, where one third of the panel was the optical illusion panel, while it chose the two elements of air and water (butterfly and dolphin) and distributed them on approximately ٧٠٪ of the panel to create a movement of transparency and movements of shapes in the other slit and to make balances between the hot and cold colors and the centrality of the calligraphy panel And the color is a success for the rest of the elements of the painting

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Fig. (10)

Fig. (11)

Fig. (12)

The tenth panel: The students divided the painting by two intersecting lines to create triangular parts in the painting in which the elements were distributed and varied and the background distributions varied in a successful movement between hot and cold colors and the distribution of shapes within the painting with a balance between the color circle and each side of the painting

The eleventh panel: the student divided the parts of the painting equally from behind the circle of colors with a balanced formulation between the two backgrounds of each panel and its interview. Good, but in general it was a board with a good system

The twelfth panel: The student took her divisions between a bisector line of the panel from above and the rest of the designs had diagonal lines and chose the middle for the optical illusion panel to emphasize the radiance and movement of colors.

Fig. (13)

Fig. (14)

Fig. (15)

The thirteenth design: The design came to the student in a one-to-two way, so the upper part of the painting came as an optical illusion panel, where it came with a clear contrast between hot and cold colors to give weight to the upper part emphasizing the circle of colors and the font and color palette.

The adjacent panel to work in calmer colors than the opposite in the upper half of the panel

The fourteenth design: The students chose the yellow color as the luminous color for the parts of her painting, so the student made a circular motion distributing the color by using two degrees, from lemon yellow to mustard yellow.

Fifteenth design: Her painting divided into four traditional parts, balancing the background of each painting with a cold color in contrast to the other two contrasts with a hot color, and the elements crossed in a very traditional way.

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Fig. (16)

Fig. (17)

Fig. (18)

The sixteenth design: the design was calm in movement and colors, and even in movement with the sizes of the elements, the distribution of the student between the hot colors and green, the last of the cold group, which gave the painting its overall calmness to the designs, with the placement of the visual deception panel in the center of the painting to emphasize the movement of the design within the color circle

The seventeenth design: The student made a not quite successful break for the optical illusion panel, but she corrected it in the circular blue movement and the elements that turned around the color circle with the green movement in the side of the panel in the background of the second panel.

The eighteenth design: The intersection of the visual illusion panel with the color circle was successful in addition to its use of the line and color panel to distribute backgrounds and colors in the remaining parts of the painting in a wide circular movement

Fig. (19)

Fig. (20)

Fig. (21)

The eighteenth design: The intersection of the visual illusion panel with the color circle was successful in addition to its use of the line and color panel to distribute backgrounds and colors in the remaining parts of the painting in a wide circular movement

The nineteenth design: The design was balanced, calm movement between the cold and hot masses, and the color circle came to a large extent in its dark colors, which gave the character of stillness to the painting as a whole.

The twentieth design The student came up with an idea that suggests the background for three applications inside the painting, which gave her the immobility and rigidity to a large extent in addition to the lack of diversity in the element and the movement came around and the idea of transparency was successful

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- The researcher designed an evaluation form for designs submitted by students to measure the opinions of some experts in the field of art and to measure what

If the designs achieved the desired educational purpose and did they achieve the understanding of the foundations and design elements within the painting,

The questionnaire consisted of two axes

- The first axis, which is the design elements and included five items

1. Features a balanced design.

2. Balances line and color.

3. There is an innovative aspect in understanding the element of transparency.

4 . Good unit frequency distribution is achieved in the design

5. He succeeded in realizing the idea of optical illusion

- The second axis, which is the general form of the design and included six items

1. Excellence is achieved in assembled design.

2. Harmony of the color group in the painting.

3. The design has a successful artistic sense.

4. Each student's design is different from the rest.

5. Realized in the design of the required design elements.

6. The design adds a new vision with the style integrated into a single panel.

- The questionnaire was judged by specialists numbering "15" Supplement No. (1) - The questionnaire consists of a triple assessment scale (appropriate – neutral – unsuitable) in order to give three degrees of appropriate, two degrees of neutral, and one degree of inappropriate

The validity of the questionnaire: The validity was calculated using the internal consistency by calculating the correlation coefficient between the total score for each axis and the questionnaire.

Reliability: The stability was calculated using the alpha coefficient (: 0.873), the hash-half (0.831-0.911). The results showed and they approved the validity of the questionnaire.

Questionnaire Validity: Validity was calculated using the internal consistency of the questionnaire

To make sure of this, the average scores of each of the opinions of the specialists who judged the ten designs presented were calculated through twenty designs that were presented within the research and who were chosen by the researcher for their presentation from the reality of one hundred and fifty designs that were implemented by the students. It became clear through the questionnaire tables that: - Both specialists agree on what's best for designs.

1- **The first design**: where I got the best selection of fit according to the opinion of the specialists, the second, fourth and fifth items were achieved from the design elements and the successful compatibility in the fourth, fifth and sixth items with respect to the general shape, his design was one of the works full of color vitality, diversity and balance of line and color. It achieved good in the distribution of units with a diversity of movement within the space between different sizes and movements, achieving harmony in the painting from the distribution of colors with an artistic sense as it was achieved in the design elements leading to the success of the gathering artwork.

2- **The second design:** It got the best choice for the specialists. It achieved the first, second, fourth and fifth items of the design elements and the successful compatibility in the fourth, fifth and sixth items for the general shape, this design was distinguished by achieving balance in the linear distribution and creating a chromatic balance. The repetition in the components of the design was successful by mastering the distribution of the units inside the painting. The student succeeded in developing the part of optical deception, which made the design distinct and updated the proper balance of the design elements of line, color, space and Distributing the blocks in the void so that he added a new vision, as the merger between the topics was successful within the artwork.

3- **The third design:** the evaluation rose. The strong preference came through all the items from the design elements and the very successful compatibility in all items in relation to the overall shape.

This design came with a different vitality in the selection of the assembly board formations, as it was distinguished by the diversity of units. His choice of units was innovative, which achieved success in performance. The section on transparency was successful with the varied and balanced distribution of line and color, which in turn gave the board an achievement of all the design elements required with a high-level technical art work.

4- **The fourth design:** I got the best choice for the specialists. It achieved the first, second, third and fifth items of the design elements and the successful compatibility in the second, third, fifth and sixth items for the general form , This design is considered one of the most successful and best designs, as it contained the idea of a special association due to the excellence of the performance of the student executing the artwork, where the elements of her idea were inspired by the painting of the famous artist **Van Gogh** and distributed the idea in different topics of the artwork. And linearity, diversity and artistic harmony of the elements of the painting, so the design was successful in creating a new vision through the distinguished integration in the artwork.

5- **The fifth design**: the preference came to the specialists. It achieved the second, third, fourth and fifth items of the design elements and the successful agreement in the fourth, fifth and sixth items for the general form, this design, with its sobriety, achieved a good balance between colors and lines, as the design took the classic division of topics with a consistent performance in the distribution of units and a good achievement of transparency and the idea of optical illusion in a successful manner. And giving a circular kinetic role to the hot yellow color throughout the design, which helped to create an innovation form in the performance of the request for artwork.

6- **The sixth design**: It got the best choice for specialists. It achieved the second, fourth and fifth items of the design elements, and the successful compatibility in the second, third and fifth items in terms of the general form and preference, In this design, the student dealt with the painting in a sophisticated concept, where it took into account the linear, formal and color balance through its distributions of the positions of the painting, so the distributions were successful between lengths and sizes that the student took into account during her performance in dividing the topics, and the painting came in harmony with the parts between color and linear texture and made a nice design artwork.

7- **The seventh design**: the evaluation rose and the strong preference came through all the elements of the design and the very successful compatibility in all the items for the general form, this design was the second most successful design in terms of artistic balance of the collected topics and kinetic creativity between color and lines and diversity in the distribution of units. On the visual turnip element in the middle of the painting by placing the line and color panel in the center of the painting with a lively mixture of hot and cold colors to give a dazzling consistent with the outer color ring.

8- **The eighth design**: got the best choice for the specialists, achieved the first, second and fourth items of the design elements and the successful compatibility in the second items The third and fifth for the general form, this design came in a quiet style that was somewhat successful, as it was distinguished by the chromatic and formal balance with the good distribution of the different units in sizes with the kinetic diversity of the units and came out with success design art work.

9- The ninth design: It got the best choice for the specialists. It achieved the first, second and fourth items of the design elements and the successful compatibility in the second, third and fifth items for the general shape, this design was so calm that it almost lost a set of artistic values for the collective work, had the student not worked hard on the linear relationship of the background with the units that were coordinated above it with a lack of color diversity. But he misses the innovation element

10- The tenth design: It got the best choice for specialists. It achieved the first, second, fourth and fifth items of the design elements, and the successful compatibility in the first, second, fourth and fifth items with respect to the general shape. As for this design, which is the last of the designs in the evaluation, it was traditional, but the student was skilled in distributing colors and working a chromatic balance between the intersection of hot colors with their streaks with cold colors in a successful deal. He also achieved the distribution of units, which came very well in terms of uniqueness with diversity and compatibility in the distribution of colors and different sizes and as it came The optical illusion painting is ingenious, and the painting was distinguished in its synthesis idea with the kinetic harmony in the painting, which came at the top of the painting calm and firm, while the rhythm of the lower part came fast, giving the painting a successful artistic sense and the design elements were achieved in all elements of the painting, but the vision of the painting came to a large extent traditional

Through the results and opinions of specialists and the differences between the opinions and the arithmetic averages obtained by the designs, the researcher sees the possibility of using the designs and their success through teaching through social networks.

SUMMARY OF THE RESULTS:

- The researcher used with the student's plates of one specific size and guaranteed the students the freedom to divide as they wanted in the interest of the success of the artwork.

 - Each student has his own characteristics that distinguish him from the rest of the other students, despite the unification of the ideas of the paintings.

- The paintings differ from one another in terms of dealing with the distribution of the paintings within the collected space, which made the designs have a different character from one student to another.

 - Some students differed in taking a special quotation source within the painting, which made the most successful flexibility in choosing the designs.

 - Through the results of the specialists' opinions and the difference between the opinions and the arithmetic averages obtained by the designs, the researcher sees the possibility of using these designs as a new proposed method for the technical work accomplished through the course

RESEARCH RECOMMENDATIONS:

1- The researcher recommends implementing the completed idea in a new way, as both of them have the desired features of the course outcomes. 2- Directing these designs every year for display at the college and university exhibition. 3- The work of many renewed designs by those in charge of the course in the college. 4- Urging researchers to employ this aesthetics in designs to be suitable for implementation in textile printing.

5- Working on directing students to the positive importance of social networks and urging them to learn the language of the age and benefit from it in developing the language of art.

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GLOSSARY

Methodology

The researcher means by methodology what he resorts to in coordinated means to obtain an intended result, and what plans he draws to achieve the desired.

Pattern -plan- design -project -sketch

which is the schematic diagram of the design work with its parts and elements assembled into one work that represents its shape and appearance

E-Learning

It means the process of self-education through smart phones and computers only through the Internet or via CDs, which allows the learner through which to learn at anytime and anywhere. This includes education through texts -

Supplement No. (١)

Arbitration form for the questionnaire for the paintings implemented in the article

Prof. Dr. /.... ……………………………………………………………

After Greetings...

Researcher Dr. Howaida Ahmed Abdel Hamid Abdel Ghaffar is conducting a research questionnaire entitled:**" The Effectiveness of E- Learning in Teaching the Foundations of Design Course"**

In order to determine the arrival of the desired knowledge from the material within the completed paintings.

The researcher presents to your Excellency the initial image of the questionnaire, and we kindly ask you to express your opinion on the items of the questionnaire, by placing a mark (√) in front of the level you deem appropriate, and we also kindly ask you to write down what you think of notes and additions about this questionnaire.

NS	PHRASES	ADEQUACY			NOTES
		Suitable	**Somewhat Appropriate**	**Inappropriate**	
١	Accuracy of language formulation and clarity of phrases				
٢	Accuracy of the scientific formulation of the items of the questionnaire				
٣	Sequencing and organizing phrases				
٤	The suitability of the questionnaire items with its objective				
٥	The suitability of the questionnaire items to the research topic				

Notes:

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We thank you for your kind cooperation with us.

Continue - Supplement No. (1)

Questionnaire to evaluate designs for design foundations boards

The name is Dr. Howaida Ahmed Abdel Hamid Abdel Ghaffar.

Academic degree or job / Ph.D. - Instructor at the Faculty of Home Economics, Helwan University ...

SN	ITEMS	suitable	neutral	UNSUITABLE
B	**DESIGN ELEMENTS**			
1	Balanced design.			
2	Balances font and color.			
3	There is an innovative aspect in understanding the element of transparency.			
4	A good iterative distribution of the unit is achieved in the design.			
5	Succeeded in achieving the idea of optical illusion			
A	**GENERAL FORMAT**			
1	Excellence is achieved in the combined design.			
2	Harmony of the color group in the painting.			
3	The design has a successful artistic sense.			
4	Each student's design is different from the rest.			
5	Realized in the design of the required design elements.			
6	**THE DESIGN ADDS A NEW VISION THROUGH THE STYLE INTEGRATED WITHIN A SINGLE PANEL.**			

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Professors Names Who Judged the Form and Designs:

1) Dr. Amr Hassouna, *Prof. of ready-made garments, applied arts, Helwan*
2) Dr. Rehab Rajab Mahmoud Hassan, *Prof. of Education and Human Studies, Sciences and Arts, University of Nizwa*
3) Dr. Nafisa Abdel Rahman Al-Afifi, *Assist. Prof. of Clothing and Textiles, Faculty of Home Economics, Helwan*
4) Dr. Ashraf Ali Mohamed, *Assist. Prof., Department of Art Education, King Faisal University*
5) Dr. Basma Selim Morsi, *Graphic Teacher, Fine Arts, Helwan University*
6) Dr. Enas Fattouh Abdel Rahim, *Teacher of Clothes and textiles, home economics, Helwan*
7) Amany Mahdi Hamed, *Teacher of Clothing and textiles, home economics, Helwan*
8) Nevin Hassan Al-Ganayni, *Artist, Murals, Fine Arts, Helwan*