

## **Distance education as an introduction to communicate with art education students to teach minerals in light of the implications of the Corona virus epidemic**

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### **An Introduction:**

The field of metalwork is one of the applied technical fields that the student must go through in the stage of preparing him as a teacher for artistic education, which contains many manual plastic methods that are used in the adaptation of different metals and in light of the Coronavirus pandemic and its repercussions, which requires social distancing and fundamental changes in methods Life and activities that depend on mixing greatly "The educational process inside universities and colleges was stopped to limit the spread of the disease and thus the need for distance education (electronic education) increased in the emergency conditions that the world is going through everywhere, so Ain Shams University was one of the first universities to start In opening the door to distance education, by adopting Microsoft Teams As a basic program for remote teaching because of the features and characteristics that the program has enjoyed that help in activating the educational process in a positive and effective manner, the researcher also discusses how to overcome the repercussions of the Corona virus epidemic, including non-mixing, the ban, and the possibility of finding solutions to these repercussions, by using the environment surrounding the student.

### **Research Problematic:**

The research problem is determined as follows: To what extent is it possible to benefit from distance education (e-learning) as an entry point to communicate with art education students to teach the subject of metalworking in light of the repercussions of the Coronavirus epidemic?

### **Research Importance:**

In light of the Coronavirus pandemic and its repercussions, including the imposition of the ban and non-mixing, the researcher faced a problem in completing the teaching of metalworking with its applied nature for art education students at the Faculty of Specific Education, and from this standpoint the importance of research is due to the possibility of using the distance education method as an entry point for communication with art education students To teach metalworking in light of the repercussions of the Coronavirus epidemic.

### **Research Aims:**

- Training students to use distance education (online education) to overcome the nature of practical metalworking material, by taking advantage of the features and tools of the Microsoft Teams program, which facilitates the educational process of applied materials, such as the video conferenc feature)
- and the desktop share (feature Desktop) - and the text chat feature) - and the ability to attach files through the (attachment) feature - in addition to the ability to record the lecture to listen to it again through the (recording) feature

- Overcoming the repercussions imposed in light of the Coronavirus epidemic, including the ban and lack of mixing, which led to a difficulty in obtaining the metal (copper) necessary to complete their curriculum by using metal that is easy to obtain from the surrounding environment, such as aluminum foil, and the work seemed to work. Experiments, followed by the implementation of artifacts, and the results of some of these experiments and artefacts were presented, which are 17 experiments and 11 metal crafts made by students.

### **search limits:**

The research was limited to the use of Islamic motifs for the Alhambra Palace in Andalusia, for its richness and decorative diversity.

The research was limited to the use of aluminum foil available in the surrounding environment for the student in light of the Corona virus epidemic and the repercussions of the ban.

### **The research sample:**

- The research sample was limited to students of the second year, Department of Art Education, Faculty of Specific Education, Ain Shams University for the academic year 2019-2020

### **Search terms:**

Distance education (e-learning): Electronic or virtual education is that type of education that depends on the use of electronic media in communication between teachers and learners and between learners and the educational institution as a whole  
 Coronavirus pandemic: Coronaviruses are a wide variety of viruses that may cause disease in animals and humans, and the recently discovered Corona virus causes Covid-19 disease. Covid-19 disease: It is an infectious disease caused by the last virus that was discovered from the Corona virus strain, and there was no knowledge of the existence of this new virus and its disease before the start of its outbreak in the Chinese city of Wuhan in December 2019. Covid-19 has now turned into a pandemic affecting many countries the world

### **Research Methodology:**

The study follows the descriptive analytical approach and the applied algebraic approach through two frameworks:

A \_ The theoretical framework (includes two main axes): The first axis:

in which the researcher deals with "distance learning (e-learning) as an introduction to teaching metalworking for art education students" in terms of: Definition of distance education (e-learning). Advantages of distance education (e-learning). Using the (Microsoft Teams) program and taking advantage of its advantages in teaching metalworking to art education student

The second axis:

in which the researcher deals with how to overcome the repercussions imposed in light of the Coronavirus epidemic, including the ban and non-mixing of teaching metalworking to art education students, using metal that is easy to obtain from the surrounding environment, such as aluminum foil, to complete their curriculum. The researcher addressed that. from where:

About aluminum foil an overview of the mechanical surface treatments used in the research (ribosomal - sandblasting - various contacts)

An overview of the Islamic decorations of the Alhambra Palace in Andalusia, which the researcher used as art to create designs for metalwork.

B\_ the application framework, including the following: - Steps of the experiment - Search Procedures Analyzing and interpreting results Recommendations and proposals

**Some pictures of the Alhambra:**



Figure (2)



Figure (3)



Figure (4)



Figure (5)



Figure (6)

**Student experiences:**



Student Taqah Mustafa Figure (8)



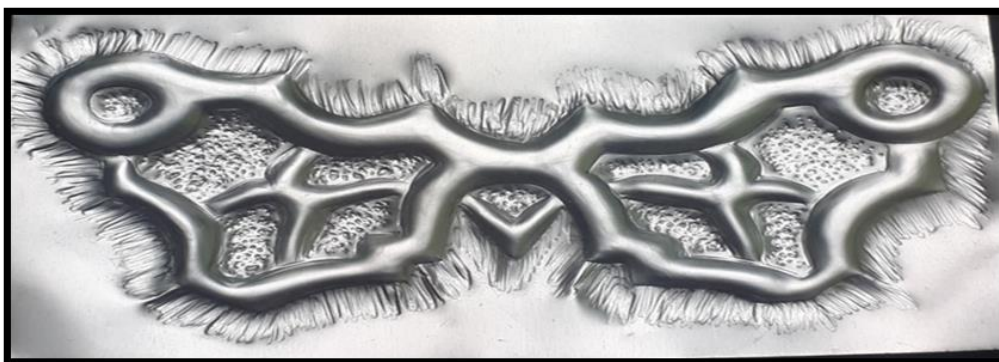
Student Osiris Ismail Figure (7)



the student Gina Milad, figure (10)



The student Abanoub Sidqi, figure (9)



Student Taqia Mustafa Figure (11)



Student Abanoub Sedky Figure (13)



Student Nada Tariq Figure (12)



Student Sarah Kamel, Fig. (15)



Student Nisreen Shehata, Fig. (14)



Student Maha (17 )



student A Sayed Figure (16)



The student from him, Nabil, Fig. (19)



The student Mai Awsam (fig. 18)



Student Nada Tariq Figure (21)



Student Abanoub Sedqi Figure (20)



Student A Sayed Figure (23)



Student Nada Tariq Figure (22)

**Students metal artifacts:**



Student A Sayed (The Worked Metal) Figure (25)



Student A Master (Design) Figure (24)



Student Angy Tharwat (The Wrought Metal) Fig (27)



Student Anji Tharwat (Design) Fig. (26)



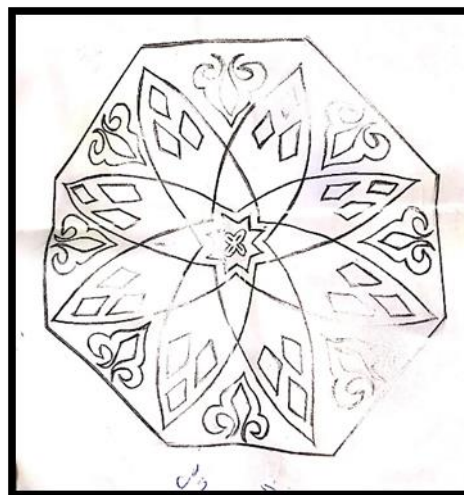
The student Ruwaida Dia (the design) Figure (28)



The student Ruwaida Dia (The metalwork) Figure (29)



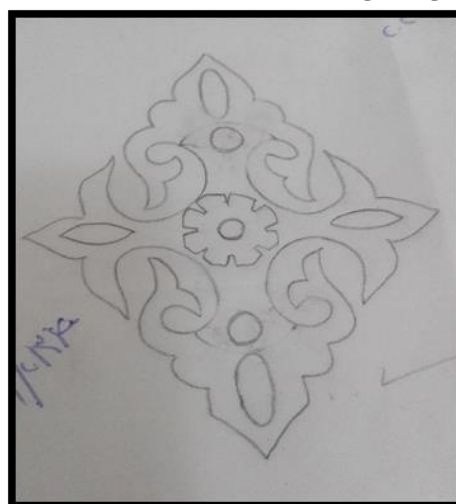
The student Ruwaida Dia (The metalwork) Figure (31)



The student Ruwaida Dia (the design) Figure (30)



Student Iman Muhammad Zaky (Metalwork) Figure (33)



Iman Muhammad Zaky (design) Figure (32)



Student A-Sayed (The Worked Metal) Figure (35)



Student A-Sayed (Design) Figure (34)



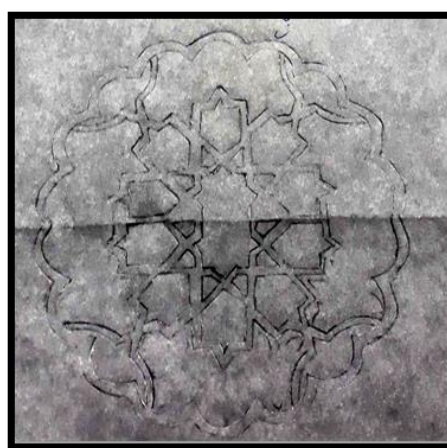
The student Osiris Ismail (metalwork) Figure (37)



The student Osiris Ismail (design) Figure (36)



Student Taqia Mustafa (design) Figure (39)



Student Taqia Mustafa (design) Figure (38)





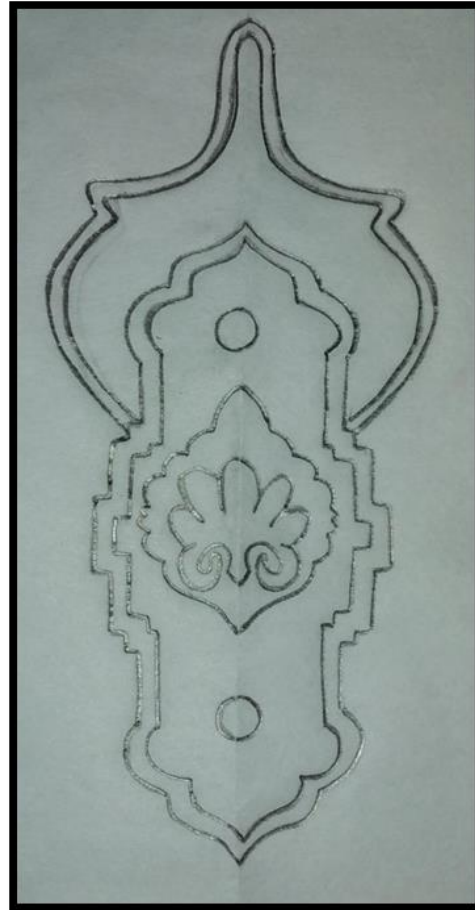
Talia Nadine Essam (Design) Figure (40)



Talia Nadine Essam (Design) Figure (41)



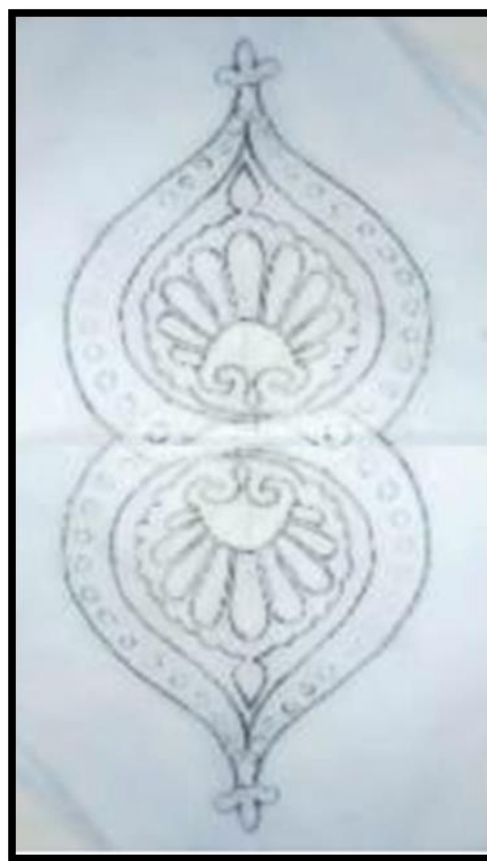
Student Rewan Muhammad (design) Fig. (43)



Student Rewan Muhammad (design) Fig. (42)



the student Zainab Fathy (design) Figure (45)



The student Zainab Fathy (design) Figure (44)

### Research Results:

1. Teaching the subject of metalworking, by its applied nature, from a distance has become possible through the use of programs that have the characteristics that help in the continuation of the educational process effectively.
2. Distance education in light of the Coronavirus pandemic is the best solution for the continuation of the educational process in an interactive and positive manner
3. The presence of alternative materials from the environment to teach applied materials helps in the continuation of the process in a positive and effective manner.
4. The trend of reformulating the plastic elements of art decorations is one of the experimental approaches in the teaching of metalworking.

### Research recommendations:

1. The possibility of teaching metalworking from a distance in natural conditions, as it saves money, time and effort.
2. The use of modern technology in the field of teaching is an enjoyable experience of benefit and great return on the educational process
3. The importance of research in heritage and various arts due to their originality and linking them to the field of metalwork

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