



## **First research**

### **Research title**

**The formative potential of the radiographic brace as an experimental approach to teaching handmade textiles to students with special needs (deaf and hard of hearing)**

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# **The formative potential of the radiographic bracelet as an experimental approach to teaching hand weaving to students with special needs (deaf and hard of hearing)**

## **Research introduction:**

Caring for people with special needs and caring for them in all aspects has become a human and civilized principle, and art education is one of the main pillars for the integration of the development of people with special needs skillfully, intellectually and socially, as it enriches their lives and helps them to adapt to their society and invest their free time and eliminate the effects of fatigue and psychological stress, which makes them more active and integrated into their society.

Handmade weaving is one of the artistic fields through which many different Formative values are realized, due to its diversity in structures and simple weaving techniques, in addition to the special Formative style of each individual, which depends on his creative ability and his absorption of the structures and materials used and his expressive means to produce textile works of utilitarian value that work on the psychological and emotional balance between the segments of society in a simple and effective way.

The researcher noticed that most of the topics presented in the field of hand weaving for deaf and hard of hearing students do not suit the modern inputs in teaching for this group, which called on the researcher to take advantage of these abilities and employ them in the field of innovative thinking for hearing-impaired students

which depends on discovering new relationships and finding innovative solutions to create new textile crafts based on radiation and take advantage of its diverse formative potential.

## **Research idea:**

The research deals with the exploitation of the formative potential of the radiator as an experimental approach to teaching hand weaving to students with hearing disabilities, with a focus on developing creativity, visual perception and skill, and employing their artistic skills in expressing and interacting with their surroundings.

## **Research Problem:**

## **The research question is determined by the following question:**

How to utilize the formative potential of the radiography in teaching hand weaving to develop the creative and skillful side of students with special needs (deaf and hard of hearing)?

## **Importance of the research:**

### **The importance of the research is evident in the following:**

- 1- Recognizing a new vision about the use of radiographic scaffolding in new formulas that enrich textile crafts.
- 2- Strengthening the sense of value and self-worth of the student with special needs by practicing experimentation with multiple ideas to create a distinctive textile craft.
- 3- Creating a link between the abilities of people with special needs and the values associated with the love of science and work and their integration into society.

## **Research objectives:**

### **The research objectives are as follows:**

- 1- Developing the creative and skillful abilities of students with special needs by providing them with the opportunity to experiment with new formulas in textile crafts.
- 2- Obtaining a variety of effects through radiometric scaffolding, which leads to the realization of new formative values and dimensions.
- 3- Developing the artistic skills of people with special needs in creating textile crafts characterized by aesthetic and utilitarian values.

## **Limitations of the research:**

- 1- Human sample:
  - 14 deaf and hard of hearing students at the Faculty of Qualitative Education - Fayoum University.
  - The language used is descriptive manual sign language through a sign language interpreter.
- 2- Duration:
  - Two months, one interview per week for 3 hours per interview.
- 3- Place:
  - Textile teaching hall at the Faculty of Qualitative Education - Fayoum University.
- 4- Material sample:

- Synthetic wool yarns and Formative frames of different sizes.
- 5- Textile structures and techniques:
- Simple plain weaving and pile knots.

### **Research terminology:**

#### **Formative potential:**

Formative potential is not a substance that can be caught or measured, but rather it is the links and connections that are established between elements and each other and make each element more valuable than if this element were isolated, as elements gain their true value only through their relationships with each other.

The formative potential of textile crafts is the field that investigates the interconnectedness of materials, shapes and techniques that make up the structure of the textile crafts.

#### **Radiographic blackout:**

In this research, the radial warp means passing the threads of the warp from a center determined by the student in a radial manner, taking into account the preservation of the flexibility of the threads and not losing one of them.

#### **People with special needs (deaf and hard of hearing):**

A group of specialists explained that people with special needs are a group of people who need special treatment as a result of having a type of disability that prevents them from adapting and practicing their lives like healthy people, and therefore they need special treatment so that they can understand the things that revolve around them.

#### **Deaf and hard of hearing:**

It is the partial or total lack of the ability to hear or understand sounds, and a person with poor or no hearing is called deaf.

#### **Research results:**

- 1- The study showed the possibility of utilizing the formative potential of the radiographic bracelet in enriching the technical aspect of the textile workshop for students with special needs.
- 2- The textile crafts contained a variety of different techniques and compositions through which it was possible to break out of the traditional framework of the textile crafts.

3- Paying attention to the aesthetic and formative potential of threads as design elements increases the ability of students with special needs to create innovative textile crafts.

4- The artwork is an integrated unit between form and content that are inseparable according to the different work and elements contained in the framework of the artwork.

### **Research recommendations:**

1- Through the researcher's studies, reading, and dealing with students with special needs (deaf and hard of hearing), the researcher recommends utilizing this research to enter into implementation as small projects for people with special needs in order to solve the issue of unemployment.

2- The research recommends experimentation in the field of hand weaving to open horizons and innovative perspectives for students with special needs (deaf and hard of hearing).

3- The research recommends encouraging students with special needs to practice Formative art, especially hand weaving.

### **Examples of artworks**



