

Coptic stone carven between analysis and experimentation**Prof. Maysa Fekry Ahmed El Saied****Professor of design at Printing, dyeing and finishing department - Faculty of applied arts – Helwanuniversity**dr_maysa@hotmail.com**Dr. Abeer Farouk Ibrahim****Lecturer at Printing, dyeing and finishing department - Higher institute of applied arts – fifth settlement**abeerfarouk99@yahoo.com**Researcher. Salma Tolba Mohammed****Freelance designer****Printing, dyeing and finishing department, High institute of applied arts, fifth settlement, Egypt****Abstract:**

The art forms an integral part of the human heritage, an important language of communication as the same as the language of speech and communication. the Art in its forms, Figures and symbols represent an international language has its own letters and words to reflect a specific meaning or message! Coptic art is one of the main elements of Egyptian human heritage. It is the link between ancient Egypt and Islamic Egypt. It's a common heritage between Muslims and Christians as they all part of one nation, they have one land, one culture, one root and one language. Thereof, there is a need to present the Coptic heritage through scientific and academic studies through analysis and experimentation as part of the Egyptian national heritage.

Study Background:

Every nation that has its own role in creating a civilization has a special journey through different ages, which reflect its elegance, its originality and the spark of his civilization. we can see that the grand journey of Egypt represented in its Arts! Since the distant ages, Egypt formulated its art of beliefs, its feelings and impressions of life on its territory.

During the Egyptian journey through different ages, Egypt did not abandon its original expression during its ancient Egyptian, Coptic, and Islamic age ... the history has glimpses of the people in which they re-meet with the world of shapes and colors in works characterized by freedom and starting.

Coptic art is one of the original methods that link the Egyptian and human heritage, it's the link between the ancient Egyptian and Islamic civilization. the Coptic art also represents art that has its own character with its roots in the Egyptian Art and heritage. the Coptic art came from the people and for the people, so it takes a special character different from the previous arts. Coptic art characterized by its objectivity, the Coptic art was caring about the object of the thing to meet the main purpose of this Art. Coptic art keeps pace with the new vision and religion expressing the people's culture that has many civilization roots. Coptic art maintains ancient patterns and symbols of pagan elements after purification it and uses it in a Christian way. Initially, it was merely signals aimed at education, then turned into signals with deep concepts and sublime symbols, and was far from simulating nature.

The art of Stone Carvings & Sculptures has been credited with showing the origins and distinctiveness of Coptic art, and clearly demonstrates that it is an independent art and not a local folk school. In particular, Coptic art has its own Religious, ideological, and sectarian background with an expression of a lot of emotions the thing that made him an independent art. we can see that the Coptic stone carven contains a lot of symbols, elements, vocabulary and units that allow us to study them aesthetically, morphologically and technically to benefit from them in the printing 3D designs on women's fabrics.

Study Problem:

The problem of the study specified in the following:

Haw to reflect the Egyptian identity through the Coptic stone carven and use it to create new 3D printing designs for women's fabrics.

Study Hypotheses

The study assumes that:

- ❖ The possibility of providing a model for the analysis of the Coptic stone carven.
- ❖ the ability to use some of the Previous technical analysis to create print designs for women's fabrics.
- ❖ Using some modern techniques from specialized programs (Ramsette program - cinema 4D) to create a design for women's fabrics.

Study Goals:

- ❖ The study aims to create a new 3D printing designs fit for women's fabrics.

Study Importance:

- ❖ Contribute to clarify the importance of formative elements, aesthetic and technical values in the designs of Coptic stone carven.
- ❖ Introducing a new creative vision to create a new print design inspired by the Coptic elements.
- ❖ The research presents a new experimental approach to 3D printing designs for women's fabrics.

Study Limits:

- ❖ **Spatial limits:** the study highlights some of the Coptic stone carven in Egypt.
- ❖ **Temporal limits:** the study highlights some of the Coptic stone carven between the (III) and (VII) calendar century.
- ❖ **Thematic Limits:** an analytical and technical study of some selections of Coptic stone carven.
- ❖ **Experimental ideas:** To create printing designs for women's fabrics.

Study Approach:

- ❖ **Descriptive Method of Analysis:** To identify the characteristics and technical features of the Coptic stone carven through analyzing the selections, as well as the technique used in its implementation. Through this analysis, the study identified the features and elements that must be preserved, and how to draw out some words suitable for design women's fabrics.

❖ **Experimental Approach:** to use this study in some computer programs specialized in the 3D printing designs for women's fabrics.

Study Terminologies

❖ **Coptic Stone Carven:**

Stone Carvings or (Carven) is one of the art approaches where the thoughts can take its own shapes and turn it into 3D Shapes by using some material such as grout, wax, stones, etc. the term Stone Carvings in this study refers to Coptic Stone Carven existed between the (III) AND (VII) century.

❖ **Analyses:**

Is to divide the thing into parts (2) of elements, vocabulary, units and attributes and characteristics - or isolate it and study it one by one to find out the relationship between them.

❖ **(Experimentation):**

Under test and observation (2). One of the stages of adopting ideas - the application of a new idea and renew its usefulness, and make sure it is appropriate for its function.

❖ **printing designs for women's fabrics**

The layout of elements and parts on a flat space of two-dimensions which Suitable for the production of design using different printing methods to suit the function (women's fabrics) for which it was designed.

❖ **Illusory third dimension**

it's called 3D, an illusory way to show the third dimension. it's a description for the space that has three dimensions (length- width- depth)

Procedural Study Steps:

First: The Egyptian Identity in Coptic Art.

Second: the technical analytical study of selections of Coptic stone carvings.

Third: the experimental study (the subjective experience of the researcher).

Study Results:

❖ Coptic heritage is a successful means of self-reconciliation between the Egyptians to confront extremism and intolerance.

❖ The descriptive and analytical technical study can be used in designing printing fabrics in general and designing women's fabrics in particular where this study rich with elements, units and a variety of formative vocabulary.

❖ The study divided the formative elements of Coptic stone carvings into 22 formative elements.

❖ The study comes up with innovations and provides some design solutions that suit the design of women's fabrics.

Study Recommendations

- ❖ It is necessary to focus on the Egyptian culture regarding the Coptic months, popular proverbs, religious celebrations, etc., which brings all Egyptians together.
- ❖ Establishing Coptic study departments in Egyptian universities, similar to Alexandrina library.
- ❖ study the Coptic heritage artistic from the analytical and technical side because of the Coptic heritage rich in aesthetic and formative values which in return enrich the design of textile printing.
- ❖ Study the Coptic heritage in designing the printing of women's fabrics to represent the Egyptian identity and reach an international design.
- ❖ Encourage the use of experimentation in design through some specialized computer programs to obtain a variety of updated and innovative results.