

**Use of technology in the formulation of decorative patterns developed for
designs of printed blouses fabrics**

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Background:

The world is witnessing lately a fierce competition in the printed clothing industry, where manufacturers and fashion houses are striving to achieve the formula of "the highest quality, lowest cost and most elegant product", which can be achieved through the production of printed clothing in general and the blouse in particular as it cannot be dispensed in the ladies' wardrobe, which shows the personality of the woman who wears it, as it represents a reading of the culture of the woman, her age, her special taste, and a sign of their physical and social status, which is a symbol of elegance and the woman's need for it is eternal whether in her daily work or at various occasions, It is suitable for casual and classic clothes and elegant women are keen to change them according to their costume, place and occasion. They know that the blouse is an essential part of their elegance. The development of raw materials and techniques, and many fashion houses have taken the slogan in the design and manufacture of blouses "Everything is permissible and is subjected to the private taste," and therefore offered different forms of blouses that suit women who seek elegance and process at the same time, and does not adhere to the seasons of the year in terms of Colors or materials, or events, and produced blouses that became as artistic masterpieces.

The current research attempts to achieve the sustainable development of printed textile materials used in the production of blouses by reducing the percentage of the loss of the printed cloth surfaces by specifying the preformed shape of the blouse (patron) and determining the shape, size, color and design of the printed parts in the blouse precisely, using the computer. The outer lines of the shape of the patron can be moved- the surface of the cloth in the front, the back and the sleeves - in different directions on the computer screen to change the design to fit the designs of a Master piece and an interlock can be done to the printed parts to achieve the lowest proportion of loss of The printed cloth used in the implementation of the blouse, when produced in large numbers, prior to the process of printing or cutting, in preparation for collecting (weaving), which leads to a small amount of materials used in printing and dyeing of the used fabrics, thus reducing the proportion of exhausts of chemicals and fabrics remaining. This reduces the effort, time, working hands and hence reduces the cost of the blouse with the possibility of changing and developing the resulting patrons to suit the modern fashion lines using different computer programs as well as the possibility of implementing the design For the printed blouses using the inked puffing method of embossed patterns of art or landscape paintings or of the work of inserting or intensifying the decorative

unit on the design plane or the implementation of designs that cannot be duplicated by other printing methods such as marbling, wax prevention, painting on silk with dye , print designs that Do not lose their shape and shining by washing, such as the design of strusses or designs of expensive objects such as diamonds, pearls and precious stones.

Key words:

Technology _formulation _ decorative_ patterns_ design_ fabric printed blouses_ printed fabrics **Problem**

of the Research:

The research problem is determined by the following question:

How can designs for flat parts of printed blouses be developed in the inked puffing way, which are beautifully rich and easy to implement and impossible to replicate by other printing methods and achieve sustainable development?

Research Hypotheses:

- 1 - The production of designs for printed blouses is possible which can achieve aesthetic richness and easy to implement.
- 2 - The possibility of using the computer as a technical tool for the production of digital designs of printed blouses in the inked puffing way.
- 3- Determining the shape and design of the blouse parts before printing them using the computer.
- 4- Production of designs that cannot be duplicated by other printing methods.

Purpose of the research:

- 1- Production of printed blouses suitable for single piece designs.
- 2- Determining the shape of the parts of the design of the printed blouse (patrons).
- 3 - Introducing new experimental entries to find new formulations for printed ladies' blouses.
- 4 - Opening new horizons for the production of printed jerseys characterized by easy design, implementation, the beauty of form and low cost.

Importance of the Research:

- 1- Introducing experimental entries for new innovative formulations that are characterized by fluency and flexibility for printed ladies' blouses.
- 2 - Overcoming some of the designing and execution problems to produce a distinctive print product through presenting some designs (Patrons) printed ladies' blouses.
- 3 - To contribute in the enhancement of the efficiency of the print product through linking between the printed product, designer, execution and outlet that match the universal fashion trends.

4 - Utilization of educational reserve for textile printing designers to rationalize the use of natural resources and contribute in the achievement of sustainable development.

5 - Highlighting a form of small projects.

Definitions of the research;

Time limits:

It shows a historical study for some shirts shapes during the period 3482 B.C. till 2017 A.D. Designs for ladies printed blouses for age category from 20-35 are executed, that are wearable during day or evening and match the summer and fall of 2017 trending fashion.

Place limits;

Designs for ladies printed blouses that fit the Egyptian ladies and girls are executed.

Research Methodology:

Follows the Analytical and descriptive approach by showing and analyzing the shapes of blouses and shirts at different historical eras.

The experimental approach is followed in the applied side of the research and includes the following steps:

- making some designs for printed ladies blouses and showing them on models from the researcher work using computer and Illustrator CS6 program
 - Making a sketch (patron) for the blouse parts using illustrator CS6 program.
- Display the printed design on the parts of the patron surfaces using the computer through the illustrator CS6 program.

Results of Research:

The research found:

- 1- Production of designs for printed jerseys that can achieve aesthetic richness and ease of implementation and shape beauty and low price and sustainable development.
- 2- Using the computer as a technical tool to produce digital designs for the printed pulley.
- 3- Determination of the design of the printed surfaces of the parts of the blouse before printing them using computer production designs that cannot be repeated by other printing methods.
- 4- Opening new horizons for small projects at low cost and adequate and rapid material return.

Introduce new experimental entries to find new formulations for printed jerseys.

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