

## **Visual Illusion and the Aesthetic Dimensions of the Geometric Line and its Use in Designing Women's Fashion to Hide Physical Defects**

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### **Abstract:**

In the modern era, there were many new artistic trends that were influenced by progress And development as a reaction to the interaction of the designer with his time, and from these artistic trends is the art of the Opp Art, or what's called visual art, This method depends on the effects of studying fonts, g Gradient in colors, and geometric areas, and on visual vision, by creating rapid shocks that inspire the eye with certain shapes and suggestions.

The Optical Deception School is considered one of the technical schools that plays a prominent and clear role in fashion design as a modern scientific method in the treatment of some of the physical defects of women, The outside is more about clothing than about body boundaries, and the individual's body may look smaller or larger through the uniform he's wearing, That is, it can imply the desired size or length by using shapes and lines in fashion design.

And in this sense ;This research is aimed at recruiting geometric line aesthetics from the visual illusion in designing Gonella which can hide the physical defects of the lower area of the woman, To achieve this goal, 15 design ideas for women's enlightenment were designed using the geometric line element as one of the design elements with a variety of ideas, These designs have been employed with some physical patterns of the woman with apparent area defects (Larger Perimeter Size, abdomen, legs),A questionnaire was then prepared to evaluate these designs by specialists in three main areas: the design foundations, the aesthetic side, visual illusion.

The results showed that the design creativity of the geometric line of ideas can be achieved through the use of optical illusion art and its various techniques to improve the visual vision of the woman herself and her consistent shape as an attempt to hide some physical defects; The proposed designs were accepted and successful in light of the averages of specialist evaluation in terms of availability of the design foundations, aesthetic aspects, and optical illusions, in addition to achieving functional processing to hide some physical defects of the lower half of the woman's body .

### **Keywords:**

Visual illusion, women's fashion design, Aesthetic dimensions, Physical defects.

### **Introduction:**

Visual deception emerged in the second half of the 20th century, and this art is based on some sensory tricks in the process of visual perception, which is the process by which we know what

we're all about, and what we're doing, about emotional responses and things through the sense of sight. (parole 1996)

Visual inspiration is an art of geometric design, precisely defined by sharp edges, and the same forms tend to be only geometric in nature, rather than being the same, it also tends to be abstract forms. (Muzaffer 1998)

And we find that the outward appearance of a human being depends more on his clothes than on the boundaries of his body, The body may look smaller or larger through the clothing worn by the individual, So you can suggest the desired size or length by visual illusions, And this is done by the brilliant hiring of colors, shapes, lines and touches, And we find that the lines have a lot of power and a lot of influence in suggesting designs that show the shape of the individual, shorter or longer, larger or thinner than it really is. (PullenJA 1990)

Therefore, the adequacy of the lines in the clothing with the body shape and strength should be taken into account, Long lines suggest tall and thin, which suits the short, full lady, and the horizontal lines are short and full, so they fit the tall and thin lady, As for the curved lines, they give a sense of fullness and therefore they fit the thin lady , Each woman must choose her clothes in proportion to the different effects of the lines, so that she can be chosen and displayed in a coherent, beautiful way . ( Abdeen 2001)

And the design of women's Gonella (Skirt) depends mainly on the lines and how they're distributed in proportions and dimensions that fit into that body, The line provides height and width dimensions and when the lines meet together, it wraps the space, And then the solid and flat parts are selected, So the distribution of the lines in the wearable design shows the individual in a different way than it actually is. (K.APeters 1979)

As a result, investment of the aesthetics and the potential of the geometric line and hiring it in visual illusion, It can be a springboard for reaching new and new insights into the field of Gonella (Skirt) design, To achieve the aesthetic, design and treatment of negative points in the body of women .

### **Search problem:**

**The search problem for the main question is as follows:** How do you use the aesthetic dimensions of the geometric line when designing women's enlightenment to hide lower physical defects in the area of (the buttocks, abdomen, legs) by visual illusions?

### **Sub-questions arise from this question:**

1. What is the impact of using a visual illusion in designing women's enlightenment to hide physical defects in design?
2. What is the impact of using a visual illusion in designing women's enlightenment to hide physical defects in aesthetics?
3. How far has the visual illusion been achieved to employ the engineering line in hiding the physical defects of women's clothing?

**The importance of research:**

1. Recognizing and investing the aesthetic values of contemporary art.
2. Highlight the importance of optical illusion in women's fashion design and hide the apparent physical defects of the lower area.
3. The use of artistic techniques for the aesthetic dimensions of an engineering line to hide the physical defects of the lower area of a woman.

**Search Objectives:**

1. Recognizing the impact of employing geometric line aesthetics by visual illusions in the design of the women's Gonella (Skirt) to hide physical defects in design.
2. Recognizing the impact of employing geometric lines through visual illusions on the design of a feminist Gonella (Skirt) to hide physical defects aesthetically.
3. Study of the degree of visual illusion to employ engineering lines in hiding the physical defects of women's clothing.

**Search Mandates:**

1. There are statistically significant differences between the assessments of the proposed Gonella (Skirt) designs from the use of the engineering line to conceal the physical defects of women's clothing in achieving the design principles according to the opinions of specialists.
2. There are statistically significant differences between the assessments of the proposed Gonella (Skirt) designs from the use of the engineering line to conceal the physical defects of women's clothing in achieving the aesthetic aspect, according to the experts.
3. There are statistically significant differences between the assessments of the proposed Gonella (Skirt) designs from the use of the engineering line to conceal the physical defects of women's clothing in achieving visual illusion according to the opinions of specialists.
4. The proposed Gonella (Skirt) designs achieve acceptance and success in the light of the averages of the sample evaluation of the evaluation axes.

**Search method:**

**Descriptive curriculum:** By studying and clarifying the importance of the geometric line, its forms and psychological effects , Also, the shapes of the Gonella (Skirt), the art of optical deception, its nature, its foundations, and the aesthetic and artistic values it carries.

**Experimental method:** By making design Gonella (Skirt) for the 15 Gonella (Skirt) Women's Gender Committee to employ the engineering line to address the negative points in the body of women.

**Search Limits:****Human borders:**

- Arbitrators in the field of fashion, textile and clothing design (11) are well established.
- A random sample of 60 women from the governorate of Daqahliyah whose ages range from (20: 35)

**Time limits:**

- Research implemented from 12/12/2019 to 27/2020.

**Qualitative Limitations:**

- Geometric line aesthetic dimensions.
- The Gonella (Skirt) is a woman's dress.
- Women's lower physical defects.

**Search Tools:**

- The questionnaire submitted to the three-pronged expert arbiter, consisting of three points, to measure the extent to which each (the basis of the design, the aesthetic and the visual illusion) and to each axis (3 terms) have been achieved.
- Questionnaire submitted for the search sample is made up of (7 phrases).

**Table (1) Gonella (Skirt) designs from the use of geometric line aesthetic dimensions to address the defects of shovels, thin sides and long legs**



**Table (2) Gonella (Skirt) designs from the use of geometric line aesthetic dimensions to address the defects of shovels, thin sides and short legs**



**Table (3) Gonella (Skirt) designs from employing geometric line aesthetic dimensions to address prominent, short-context abdominal defects**



**Search results:**

- As for the achievement of the aspect of the design principles in the proposed Gonella (Skirt) through the use of the engineering line in hiding the physical defects of women's clothes, it is indicated that there are statistically significant differences between the evaluation of the proposed designs in light of the opinions of specialists, These results are consistent with the research (Copper 2019), and also the research (Al-Saidi 2020) and the research (Al-Rabie 2010) in terms of achieving ratio, proportionality, and unity among the design parts .
- As for achieving the aesthetic side in the proposed Gonella (Skirt) through employing the geometric line to hide the physical defects of women's clothes, it shows that there are statistically significant difference between evaluating the proposed designs in light of the specialists' opinions, These results are consistent with the research (Hussein 2018) and also research (Alhsanat 2014) in terms of the level of innovation and the innovation in the proposed design and its trend.
- And that it achieved the visual illusion in the proposed Gonella (Skirt) through the use of the geometric line to hide the physical defects of women's costumes. It shows that there are statistically significant difference between the evaluation of the proposed designs in light of the opinions of the specialists, These results are consistent with the research (Said 2010), the research (Afifi 2014), and also the research (Afifi 2018) in terms of suitable design, hiding negative points in the woman's body, and by adjusting the lines in a suitable artistic way.
- The proposed Gonella (Skirt) designs were accepted and successful in light of the averages of the sample evaluation of the evaluation axes. These results are consistent with research (Afifi 2018) on the proper distribution of the lines in the form and size of the design, and the treatment of the defects of the woman's body in order to make them appear good and acceptable.

**Search Recommendations:**

1. Focus on visual illusions in clothing designs for some with special needs.
2. Conduct research in fashion design to address the physical defects of different age groups.
3. Taking advantage of the aesthetics of visual inspiration in the design and production of fashion supplements.