

# **Illustrations and their role in communicating informational contents for students of the Faculty of Medicine, hand surgery and microscopic surgery as a model**

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## **Abstract:**

The concept of classifying the illustrations or the mark raises a lot of complexity in the various fields that are of interest, and there is no possibility of studying and excavating all aspects of this classification. Its capabilities, importance and ability to formulate scientific concepts, patterns and foundations, but we see the need to limit the field to its maximum. We live in a world of signs, signs about signs, and the growing sense of this reality has prompted the modern man to change his view of life a great change, which made him realize that the truth in this world is not rooted in the things themselves, but in the relationships that we observe between things, that is, they are It is not rooted in the elements, but in the structures as a result of this change of perspective from the “thing” to the sign, which is followed by a methodological search in the two perspectives of the “sign” as a representative and an alternative to the thing. It deals with the analysis of the sign in the art of painting. "The pictorial or iconographic sign assumes a single expression for each signification, an expression that is naturally related to this sign, and the drawing is the well-known example of this type of sign. The bearer of the sign and the signifier is a customary and unexplained agreement, so there is no similarity, connection or contiguous relationship between them. Pearce says, “A symbol is a sign that refers to the thing it refers to thanks to a law that often depends on the association between general ideas.

## **Keywords:**

Illustration, contemporary print, hand surgery, microscopic surgery, label, logo

## **Research problem:**

The study of illustrations is a pattern that should take into account the features of this design pattern that are directly related to the learners, as they are informative, designed in the form of graphs that reduce an important number of verbal data, and these drawings were used by a significant number of educational resources to help students understand Scientific materials that require illustrations in which some procedural medical operations are explained in many details, and for this and others, the design of these drawings is a task that should be given by the designers, because they require clarity, readability, and accuracy of information, and this is what we do not see accurately in a number of guiding illustrations, what It means an inaccurate delivery to the student who is waiting for a simplification of information with accuracy in describing the subject in its scientific, artistic and expressive framework. Down to

digital technologies and artificial intelligence, those technologies whose data have become at the heart of the visual educational process, and from this point of view Divorce, **the research problem can be formulated in the following questions:**

- ١) To what extent is it possible to derive new formulations for designing illustrations using building theories for students of the Faculty of Medicine?
- ٢) How can Gestalt theory be adapted in designing illustrations for medical students?
- ٣) What are the bases with which structural systems can be used to enhance installation methods for the aesthetic and semantic elements of form in illustrations and to reproduce them?

#### **research importance:**

The importance of research is divided into the following:

-Theoretical importance: It can contribute to strengthening studies and research related to the design of guidance and guidance publications by linking contemporary digital technology with science and art, by conducting studies that are closely concerned with the subject of illustrations.

Applied importance: It can contribute to enhancing the skills of workers in the design of illustrations, as well as medical faculties, school activities, professors, and students.

#### **Search goal:**

The current research aims to identify:

The role of illustrations in communicating informational contents to students of the Faculty of Medicine (hand surgery and microscopic surgeries), and this is done through:

)The possibility of enriching new experimental approaches to find new formulations through the gestalt laws and enriching the designer's thought by extracting modern design formulations, which expands the designer's perception of the use of contemporary digital technology and the benefit of other disciplines, such as students of the Faculty of Medicine, and linking them in research studies that serve that.

#### **Research hypotheses:**

Based on the problem of the study, its importance and objectives, the research presents the following hypothesis:

-There is no cognitive-aesthetic evidence on the effect of illustrations for medical students in graphic design on the law of visual attraction.

#### **search limits:**

Objective Boundaries: Applications of Structural Systems in Contemporary Digital Graphic Installation.

Spatial boundaries: a study of illustrations (hand surgeries and microscopic surgeries), Faculty of Medicine - Assiut University.

Temporal boundaries: Egyptian graphic production 2021-2022 AD.

**Research Methodology:**

The research follows the following research methods (descriptive - analytical - experimental).  
Descriptive to clarify the research stages

My analysis to deepen the implications of the design field's association with educational media

Experimental to conduct the researcher's practices on applying the research axes within the production of some designs related to the research topic

I do not agree with the expert about the location of the methodology, here is its correct place, but the following should be mentioned:

Research methodology - the research community - the method of selecting research samples - methods of collecting information (research tools.)

A methodology looking at and about text generators and their internal and structural generators. It searches seriously for the reasons for the multiplicity and infinity of discourses and programs and seeks to discover the deep structures and logical core foundations that lie behind the unity of scattered texts and behind the totality of different sentences and forms.

The research follows the descriptive analytical approach to analyze applied models and then use the experimental approach to employ these models in designing a logo for microscopic surgeries as an illustration for students of the Faculty of Medicine with different graphic techniques by activating the Gestalt law in the structural structure.

**search tools:**

\_Photographs collected by the researcher during field visits to the Faculty of Medicine Hospital, Assiut University and the Microscopic Surgery Unit

\_Graphic treatments using existing graphics and texts for the logo of the Microscopic Surgery Unit.

Logo and publications produced by the researcher using graphic processors for computer programs.

Use Arabic and foreign references and specialized books in this field.

Some websites on the World Wide Web.

**Findings, recommendations and conclusions:**

research results:

The possibility of using illustrations, the research reached the following results:

-The possibility of using the design resistances in the illustrations to complete the educational process and make it more easy and safe while promoting between the two professional lives and improving the sense. Aesthetic appointed to confirm the information.

Illustrations subject to building codes have moved a lot towards digital transformation in actual value. It is possible to combine theories with the contemporary development of digital design in illustrations of artificial learning for prosthetic limbs.

The development of publications through the illustrations of the various colleges that are not specialized in the arts has a strong and effective role in attracting the public through the means of advertising and marketing them well, where the largest spread.

Applying the theories and building codes of the original Gestalt for prints and logos while maintaining academic, scientific and artistic standards.

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