

Artificial light and its effect on the aesthetic values of contemporary mural sculpture

Assist. Prof. Dr. Gamal Yahia Mohammed Sidky

Assistant Prof. at the department of sculpture - Faculty of Fine Arts - Minia university

gamal_sidky70@yahoo.com

Research Summary

Light is considered the main source of energy, it is one of the greatest divine blessings because it is connected with the gift of sight, there is no life on earth without light, that led several scientists and researchers to discover this element and its ambiguity, and with the appearance of huge scientific and technological development and progress in all different life aspects, light technology has an abundant share of this progress and development that led the artist to discover potentials and aesthetics of the light and its fascinating results to its plastic treatment.

The conscious artist is the one who can reconcile between the functional role of the light inside the artwork and its aesthetic part in showing this work by studying and understanding light characteristics and its interactions with various formation data, so artworks were created through it based upon using artificial light and its modern techniques, hence using lighting as a formation has appeared, one time as an expression and another time as an effect.

Artificial light plays an important role in highlighting aesthetic values of mural sculpture through the following:

- 1- showing formations and embodiment within them whether they are static or dynamic.
- 2- showing the 3rd dimension which is the sense of perspective depth in design.
- 3- showing the surfaces whether they are convex, concave or flat.
- 4- Concentrating on the subject components in which the artist like to present and hence highlights it.
- 5- Obtaining relief or bas - relief formations by distributing lights and shadows inside artwork.
- 6- Adding luster to some materials when required, as in the case of works carried out with metallic ores or the Alpatteh method.
- 7- Adding an aesthetic touch on shapes or faces by using calm smooth lighting.
- 8- Deepening the sense of space, vacuum and formation unit.

With the development of the concept of light technology, a change in artistic styles followed and as a result of this development, plastic concepts developed and light technology was functioned in modern works aesthetically revealing new expressive contents and keeping pace with this technological caravan that has a clear effect on the artistic methods of many artists.

The research recognizes the following:

1. The nature and properties of light.
2. Surfaces properties and its types.
3. The effect of artificial light on colors.
4. Types of lighting according to direction and angles of the light to show its effect on the aesthetic and functional aspects in mural sculpture works.

5. Artificial light and its aesthetic function in mural sculpture works.
6. Technology of artificial light and its effect on modern art trends in mural sculpture art.
7. Models of some artists who have functioned light technology and various light media in their sculpture formations to recognize their methods and techniques in executing these works to show the effect of this on adding another aesthetic value on the work, in addition to its stable plastic values.

Research Problem:

Problem of the research is summarized and resides in:

1. To what extent can mural sculpture art acquire visual, formal and artistic values by using different artistic treatments of artificial light?
2. To what extent can data of modern lighting technology be used in mural sculpture works?
3. Does artificial light have a role in achieving the artistic purpose for mural sculpture artist and what is the effect of this on the aesthetic values of mural sculpture art?

Research Aims:

The research aims at making use of modern technological data of lighting in the field of mural sculpture through:

1. Studying the artificial light as a source of aspiration for mural sculpture artist.
2. Applying this study in producing illuminated mural paintings by using the artificial light bearing characteristics of the present age and keeping pace with modern artistic trends.
3. Studying the artificial light as a plastic component may add for the mural sculpture art other aesthetic values in addition to stable aesthetic values.

Research Importance:

The importance of the research is due to:

1. Making use of artificial light technology in mural sculpture works, so that the artist can keep pace with development and creation.
2. Showing the relationship between the artificial light and methods of its execution in works of mural sculpture works.
3. Shedding light on science and technology data and making use of it in mural sculpture works.

Research Hypotheses:

The researcher hypothesizes that:

1. The artificial light is a new aspiration source for mural sculpture artist.
2. Different light treatments with the artificial light give visual and formal values that are added to the stable aesthetic values of mural sculpture art.

Research Methods:

The researcher followed analytical descriptive methodologies through:

Studying the artificial light, its properties, formal potentials and its effect on aesthetic values, determining the relationship between them and the executed design with mural sculpture method, developing the necessary technicalities for it, then presenting models of some works

in which the artist deals with the artificial light and analyzes it to show its effect on aesthetic values of mural sculpture art.

Research Limits:

Firstly: Temporal limits:

The end of the 20th century and the beginning of the 21st century.

Secondly: Spatial limits:

Patterns, but not limited to, in Europe and some countries.

The conclusion:

In the light of the previous study for the research subject " the artificial light and its effect on aesthetic values of mural sculpture art “, this study added a new concept in the field of mural sculpture leading artists to make use of modern artistic trends in art and science representing in the light technology for obtaining aesthetic effects that are difficult to obtain through the natural lighting.

The study innovates a new artistic vision by adding the component of the artificial light with its multiple media, among the formation aesthetics as it is considered as a plastic component that is added to the stable aesthetic values for sculpture art in general and mural sculpture in particular.

Findings and recommendations:

1. Introducing the subject of design technology into sculpture courses.
2. Encouraging students teaching them the importance of experimental thinking in their mural works to discover the method importance in creating artistic innovations that keep pace with progress, scientific and technological development.
3. Providing the opportunity for the researchers to conduct further technological applied researches to create designs that keep up with the times.
4. The study showed the possibility of making use of technological data through the artificial light in making mural paintings bearing the present time characteristics and keeping pace with modern artistic trends in the art of sculpture.
5. The study showed that it is possible to create a modern artistic vision by adding an element of artificial light to design mural paintings with multiple media.
6. the study confirmed the positive relation between the artificial light and mural sculpture art, as light could be used to add another aesthetic value in addition to the fixed aesthetic values in sculpture.
7. The study confirmed that the artificial light as an added value has affected the formation components in the artwork executed with the method of mural sculpture.

Key Words:

Artificial light – aesthetic values – modern mural sculpture – technological data

Patterns of research images:





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