



**Faculty of art Education**

**Departmental Hand Crafts Work and Folklore**

**Title: Aesthetic variables used in the colorimetric mediums to achieve creative plastic formulations in metal crafts**

**Submitted by:** Rehab Mohamed Ahmed Abdelaal

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Prof. Dr. Aiz Eldin Abd Elmouty

**Summary of the research**

**This research aims to:**

1. Identify the plastic potentials (capabilities) of the colorimetric mediums and their treatment methods. And also to identify the effects of these mediums on the aesthetics of the metal crafts as a source to achieve creative formulations in the field of metal crafts education.
2. Understand better and highlight the most important aesthetic variables used in the colorimetric mediums to achieve creative plastic formulations in the contemporary and foreseen future metal crafts.
3. Develop a number of experimental avenues, which can help find creative plastic formulations that can be implemented

(with contemporary vision) on the metal surface of colorimetric mediums.

**This study structurally consists of five chapters:**

**Chapter 1: subject of the research**

This chapter focuses on the background of the study and its problem. Furthermore, it highlights the assumptions, significance, aims and limitations of this study. The chapter also discusses the layout of the proposed research including its theoretical and practical frameworks. It also contains the nomenclatures used throughout the research. The chapter ended with a review for the existing studies that are relevant to the subject of the research.

**Chapter 2: Conceptualization of the colorimetric mediums with the metal forming: classification, types, forms and characteristics**

This chapter highlights the concept of the mediums, colors, and colorimetric mediums in the plastic art in general, and in the field of the metal forming in particular. In addition, this chapter discusses the two colourful classifications (colored and coloring) pertinent to the metal forming.

1. Coloring mediums:
  - Metal coloring mediums (metallic and non-metallic)
  - Non-metal coloring mediums (natural and synthetic)
2. Colored mediums:
  - Metal colored mediums (metallic and non-metallic)
  - Non-metal colored mediums (natural and synthetic)

This chapter also discusses the various types of the colorimetric mediums, forms, and their characteristic and visual forms in terms of metal, gemstones and para-gemstones, glasses and plastics.

**Chapter 3: Impact of the colorimetric systems of the contemporary artists on the aesthetics pertinent to the use of the colorimetric mediums in the metal crafts:**

This chapter illuminates and discusses the concept of modernity in plastic arts as well as the concept of colorimetric mediums. It also highlights the effects of the colorimetric theories on the colorimetric systems of the contemporary artists. In addition, this chapter discusses the aesthetics of the colorimetric mediums and their directions in relation to the modernized arts, which are represented by the cubism, metaphysical, expressionism, dadaisme, constructivism, and surrealism.

**Chapter 4: The impact of the philosophy of experimentation and synthesis to change the aesthetics pertinent to the colorimetric mediums of the metal crafts in relation to the art of post-modernism**

This chapter focuses on the concept of the post-modernism. It also focuses (in the sense of the art of post-modernism) on the concept of experimentation and its types in relation to the field of the metal forming. It also discusses the concept and types of synthesis in the field of metal forming in relation to the arts of the postmodern. Furthermore, this chapter includes aesthetic variables in order to address the colorimetric mediums in metal crafts. It also highlights the avenues of the colorimetric mediums along with the arts of the postmodern. These avenues include: expressionism-metaphysical, visual illusion, kinetic art, Pop art, and minimalist art.

**Chapter 5: Research applications**

This chapter focuses on the aims of the applications used in the study. It also highlights the starting points of these applications including the intellectual and plastic inputs. In addition, it addresses the colorimetric mediums, plastic styles, and used equipments and tools.

This chapter then shows experimental practices, addressing the colorimetric mediums (in both colored and coloring types), on metal surfaces carried out through 10 stages. These stages were classified according to the used colorimetric medium.

This chapter also presents the applications of the researcher herself. Note that, these self-applications were based on the results evolved from the aforementioned experimental practices. The self-applications were characterized and classified according to several analytical items designated by the researcher.

This chapter concluded with the most important conclusions and recommendations reached by the researcher and the display of the list of Arab and foreign references, web sites the researcher relied upon in the completion of this research. In addition, a summary and an abstract are presented in both Arabic and English languages.



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**ABSTRACT**

This research aims to: Identify the plastic potentials (capabilities) of the colorimetric mediums and their treatment methods. And also to identify the effects of these mediums on the aesthetics of the metal crafts as a source to achieve creative formulations in the field of metal crafts education. Understand better and highlight the most important aesthetic variables used in the colorimetric mediums to achieve creative plastic formulations in the contemporary and post-modernism metal crafts. Develop a number of experimental avenues, which can help: (1) find creative plastic formulations that can be implemented (with contemporary vision) on the metal surface of colorimetric mediums. (2) advance the field of the art education.

**This study structurally consists of five chapters:**

**Chapter 1: subject of the research**

This chapter focuses on the background of the study and its problem, assumptions, significance, aims and limitations of this study. It also contains the nomenclatures used throughout the research, and the relevant references.

**Chapter 2: Conceptualization of the colorimetric mediums with the metal forming: classification, types, forms and characteristics**

**Chapter 3: Impact of the colorimetric systems of the contemporary artists on the aesthetics pertinent to the use of the colorimetric mediums in the metal crafts:**

**Chapter 4: The impact of the philosophy of experimentation and synthesis to change the aesthetics pertinent to the colorimetric mediums of the metal crafts in relation to the art of post-modernism**

**Chapter 5: Research applications**

This chapter included the experimental practices, and the self-applications of the researcher. It concluded with the most important research outcomes and recommendations reached by the researcher, and the local and international references.

**Key words: (aesthetic variables – colorimetric mediums-plastic formulations)**



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**ABSTRACT IN 8 LINES**

This research aims to develop various experimental inputs that can contribute in finding some creative plastic formulations that can address the colorimetric mediums and their treatment methods with innovative vision for the metal crafts. This study consisted of five chapters. The first: subject of the research. The second: conceptualization of the colorimetric mediums with the metal forming. The third: impact of the colorimetric systems of the contemporary artists on the aesthetics pertinent to the use of the colorimetric mediums in the metal crafts. The fourth: the impact of the philosophy of experimentation and synthesis to change the aesthetics pertinent to the colorimetric mediums in relation to the art of post-modernism. The fifth: applications practices and self-applications.

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