

## **Abstract**

Address this research:

### **Analytical study of the Islamic domes as input for the development of structural ceramic formulations.**

Anyone who examines Islamic architecture notes that art differs from art in general in nature, characteristics and philosophy until the final outputs, it is a philosophical thought of exporting the Islamic faith and has the dimensions of the intellectual and profound philosophical implications still need a lot of studies and research to detect the components, and that comes through this research to focus the architectural heritage and architectural elements and decoration, but the richness of this heritage and richness we resort to the exact allocation and narrow the search to examine and analyze a variety of selections from the domes of the Islamic Mamluk Egypt as architectural elements and what they contain of artistic values and aesthetic support the creative process by addressing the domes of the spirit of the times contemporary art through our culture to see the production of new structural ceramic formulations help to enrich the domes of the Islamic artistic process in general and the composition of ceramics in particular, the importance of the study is for these as one of the entrances Avenue to link the practices of the ceramic structural formations Paljmagliat emanating from the study and analysis of the Islamic Mamluk domes and through the dumping of light on the Islamic Mamluk domes and decorative elements and the linkage between the technical aspects, intellectual and practical achievements of the structural ceramic formulations.

And study the structural and decorative characteristics of the Islamic Mamluk domes and benefit from the development of structural ceramic formulations, the study methodology and track historical and descriptive

analysis through description and analysis of the selection of the Islamic Mamluk domes to identify the types and philosophical implications, as the researcher to study school structural and functional values in the starting ceramic and derive the relationship between them and between the Islamic Mamluk domes.

Is also a researcher on the study methodology own experience through its work by the study and presentation of the production of ceramic study on a group of specialists to assess the production through a questionnaire with statistical significant bearing points and axes of the objectives of the search and inventory of these results to determine the consensus of the arbitrators on the axes of measurement verification hypotheses at the end of the study revealed several results Orzha that the philosophy of Islamic architecture influenced many of the artistic trends and the art of building domes share of this and the study and analysis of these domes from which to inspire new art formulations in the field of art in general and especially in ceramic Through study and analysis of the study Dome of the Islamic Mamluk and the development of structural ceramic formulations based on aesthetic values, and ended the researcher introduced the research findings and recommendations and references.

## Summary

### Introduction

The development of formulations in the field of structural ceramic pottery is one of the entrances important beneficiaries of severe Tina and composition, based on the study and analytical insight into the elements of the Islamic architectural heritage, which is central to such a development.

During the study dealt with the center of the Islamic architectural heritage and of a dome as a source for the development of structural ceramic formulations show the importance of these architectural elements and what they contain values must be the artist or the student should not have overlooked the study elaborated the research problem is that you can enrich the creative process in the formation of ceramic through the use of the analytical study of the Islamic domes as an input for the development of formulations using the structural properties of ceramic structural plastic hub for research.

Accordingly, the study has identified the following assumptions:

The possibility of deriving the values of technical study and analysis of the Islamic Mamluk domes and to take the property structural plastic hub of the school to find artistic values, consistent with the artistic values of the Islamic Mamluk domes serve the development of ceramic forms of constructivism.

And to verify the validity of the hypotheses put forward the study dealt with the descriptive analytical approach applied in six chapters, namely:

**Chapter I:** includes the subject of study and the background and the research problem and its importance and its objectives and Frodah

addition to the border and the approach and terminology.

**Chapter II:** includes studies related to research.

- First: Studies related to the field of Islamic architecture philosophical implications.
- Second: Studies related to the field of Islamic Mamluk domes.
- Third: studies related to the field of structural ceramics.

**Chapter III:**

Address the study of Islamic architecture and what they contain contents of a philosophical introduction, followed by aesthetic values in Islamic architecture and themes of unity and diversity and central integration and abstraction and symbolic also addressed the content and form in Islamic architecture and architectural and decorative elements of Islamic architecture, followed by the Mamluk architecture and components and the general characteristics of Mamluk architecture and values of the philosophical domes Islamic Mamluk and ways to build domes and the components of the dome.

**Chapter IV:**

First topic: a study school structural and functional values in the configuration of the ceramic with the concept of construction, the relationship between the Islamic Mamluk domes structural.

The second topic: An Analytical Study of the selection of the domes of the Islamic Mamluk Egypt, from where the structural form and surface treatment technology the dome, the dome decoration problem analysis and selection of the domes of the Islamic Mamluk Egypt and draw artistic values in the configuration architecture of the Mamluk domes.

**Chapter V:**

Screening of a selection for the production of some of the artists world characterized that rely on the foreign relations and engineering as a basis

for building productions Fine researcher then followed by the presentation of productions Fine researcher and role of material in the development of new formulations of ceramic materials and building construction and tools used in the implementation of the productions of the Fine researcher and explain the purpose of a researcher from the production of ceramic configurations using plastic properties of the school to enrich the structural composition and presentation of the production of ceramic tile on the study group of specialists to assess the production through a questionnaire with a statistically significant bearing points and axes of the objectives of the search and inventory of these results to determine the consensus of the arbitrators on the main measure of achievement of assumptions that lead research.

**Chapter VI:** Conclusions and recommendations and a summary of research and the Arab League and references.

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**Analytical study of the Islamic domes as an  
Introductory to the development of structural  
ceramic formulations**

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**A Dissertation**

**Presented to the Girls College of Education Jeddah In partial Fulfillment of the  
Requirements For the Degree of Doctor of Philosophy Specialization in Art  
Education, "ceramic"**

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**Rabi awl 1431 H**

**March 2010G**