

Architecture and its association with astronomy are important in the ancient Egyptian architectural design

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Introduction:

Architecture is considered the mother of design, that is, the architectural study is considered the basis for all disciplines of applied and beautiful arts, and this is what appeared and is through the architectural schools that appeared in the European Renaissance, such as the "Bauhaus" school, from which the art majors branched out in various fields, and accordingly we find the basis of design. The architecture is embedded in the folds of the ancient Egyptian civilization. Which linked architecture with functional requirements of the ancient Egyptian and was also linked to his religious creed, and since the sun was a main idol for the ancient Egyptian; It was necessary to study astronomy to connect architecture (temples and tombs) at an angle that allows the sun to enter the heart of these architectural buildings, Accordingly, in modern architecture, the matter touched upon theories that allow modern architecture to enter the rays of the sun to make the building brighter, and also from the architectural design theories to be in the direction of the winds to allow the place to be ventilated as much as possible, especially in hot places, so there are urgent incentives to study architecture in ancient civilizations and their connection. With the theories and rules of astronomy around it, and displaying those monuments in ancient Egypt for us to make use of in modern architecture; To be a trend in the future that can be complemented by the applied and beautiful arts specialties with their products and theories, which makes architecture in development

The architecture in the ancient civilization of Egypt is what taught the architectural designers in the Greek civilization, the Roman civilization and other civilizations, as the architecture in ancient Egypt was linked to the ancient Egyptian philosophy, which is the resurrection after death and the life of immortality, so the worship of the multiple ancient Egyptian deities was a sacred thing in his worldly life ; The ancient Egyptian artist was interested in building temples and tombs to commemorate and sanctify his deities at that time. The sun, the deity Ra, was a major deity for the ancient Egyptian. A large number among 1,200 deities in Qatar, all of Egypt, and 500 deities, according to the texts of the priests of the Temple of Amun, in Thebes, "Luxor now."

And we learned in our studies in applied arts, "Architecture is the mother of design." No matter what the disciplines differ; Accordingly, studying the theories and keys of architecture and their connection with astronomy represents a matter of great importance before dealing with the rules, theories and concepts of modern architecture.

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Research importance: Significant of the Study

Studying the concepts, rules and theories of the architectural astronomical connection in the ancient civilization of Egypt, this will lead to their development and manifestation in modern architecture

The research includes:

- 1 -The sun passes over the shrine of the Holy of Holies at Karnak Temple and the Temple of Deir el-Bihari:
- 2 -Hatshepsut Temple
- 3 -Dendera Temple
- 4 -Temple of Hibs
- 5 -Qasr Karun Temple
- 6 -The phenomenon of sun passes in the temple of Abu Simbel
- 7- The relationship of the pyramids of Giza and the astronomical constellation of the Great Tower.

Research objective: Objective of the Research

The research aims to activate the relationship between the architectural design and the laws of astronomical movement as it was the ancient civilization of Egypt.

Research methodology: Methods of the Research

The research uses the descriptive, analytical, and inductive approach of the historical architecture in the Pharaonic civilization with the astronomical rules associated with it. Which aims to benefit from these historical values, apply them and activate them in modern

architectural designs, which gives modern architecture the historical value of the ancient civilization of Egypt.

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