

**A Proposed Methodology to benefit from the BioGeometry
Science in design
"Application on Metal Constructions and Architectural Ceramics -
Interdisciplinary Study "**

Assist. Prof. Dr. Waleed Ebrahim Hassen

**Assistant Professor, Metal furniture & construction Dept, Faculty of Applied Arts,
Helwan University
drwel.1977@gmail.com**

Dr. Shaimaa Osama Abdel Hamid

Lecturer, Ceramic Dept, Faculty of Applied Arts, Helwan University

Abstract:

At the present time, the international academic institutions are moving towards interdisciplinary research studies, which has created the importance of this type of studies at the level of applied arts disciplines. The intellectual methodology based on interdisciplinary studies between the various disciplines of applied arts leads to high quality design outputs, with complementary information based on convergence of knowledge and science in common disciplines. BioGeometry is one of the sciences that aims at reaching the appropriate design solutions compatible with human energy in the design of architectural spaces, including the design of metal structures and architectural ceramics by introducing a balance between different design elements. The aim of this research is to develop a methodology for the use of BioGeometry science in the design of metal constructions and architectural ceramic as an internal study between disciplines metal furniture and constructions and ceramics. The research found that BioGeometry can introduce balance energy into metal constrictions and architectural ceramics at the lowest possible cost. It does not require complex devices or high material possibilities, but all that is needed is to apply some of the design elements that the designer can apply easily.

Keywords: BioGeometry - Metal Constructions Design - Architectural Ceramics Design