

## The Impact of using 3D Printing on developing the Architectural Ceramic Design

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### **Abstract:**

The research presents a form of technological advancement, which is 3D printing 3, which is a form of manufacturing technology in addition to Additive Manufacturing, which opened up new horizons that redefined concepts and systems in the design of traditional industrial and commercial products. In the worlds of industrialization and innovation even described by many as the industrial revolution of new, it has reduced the tripartite printing dimensions of time taken to designers and engineers to visualize, shaping, and create models of primary, helping to identify the product characteristics and specifications of formal and deal with them early in the operations of the design and production of a series of product ceramic.

### **Research problem:**

- The ceramic designer made the best use of the 3D printing revolution in advancing the creative process.
- The obstacles facing the ceramic designer in presenting his idea and producing some ideas.

### **Research objective:**

- Learn about the potential of the 3D printer in ceramic molding.
- Clarify the obstacles facing the ceramic designer in the process of creativity and ceramic design and try to overcome them
- Making use of 3D printing in order to obtain a finished ceramic stereoscopic pattern.

research limits:

- Research is limited to the potential of the 3D printer in the field of ceramics.

### **Research methodology:**

- The research follows the descriptive analytical method

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### **Keywords:**

3D printing -additive manufacturing -ceramic design - product design *Computer-aided design (CAD)* -computer-aided manufacturing