

## **The development of interior design materials in light of the intellectual and technological progress of the contemporary architectural form**

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### **Abstract:**

The research examines the developments that have occurred in the architectural design thought and within the space, especially after this technical development that coincides with the development of digital technology for drawing programs, and what these changes have brought about the development of the contemporary architectural form with complex design and implementation treatments. In the past, the designer had only his scientific imagination to express because of the humility and limitations of the tools available to him and his ideas came out on paper through drawing with a pen.

While choosing raw materials to address the aspects of dressing and furnishing interior spaces, she was facing difficulty due to the types of materials and their specific capabilities. But with the amazing technological development that was accompanied by a change in all branches of science and disciplines, especially the fields of architecture that benefited greatly from this development, and the architectural form developed with it.

As architecture was confined to the traditional design, unfamiliar and more sophisticated designs emerged, characterised by rounded edges, streamlined shapes, and intricate interfacing between lines, in addition to changing the pattern of internal space to match the external appearance and meet the needs of users in an appropriate and contemporary nature.

The emergence of modern materials and their accompanying technology were credited with completing the link between design and implementation, it has become easier to implement what was designed in the world of virtual reality to become a tangible reality in the light of intellectual and technological progress.

The technological development witnessed by the materials technology has resulted in modern materials and raw materials developed, aimed at improvement and preservation of the environment and energy, in addition to the creative aspect in the design and implementation process to achieve a modern design idea that matches the requirements of contemporary society, and the main goal of the architects and designers has become to utilise and exploit the available technology to serve the architecture and its purposes, through design, implementation and compatibility between them, and some designers have used these booms to find a new architectural language that suits the era including innovation and creativity that was not easy to find in previous eras.

### **Key words:**

Modern materials - developed materials - implementation technology - contemporary architecture - architecture technology.