

Environmental study of the Wadi El Hitan Reserve and Its effect on Interior Design and Furniture

Prof. Abdul Rahman Bakr

**Professor of Environmental Design, Department of Interior Design and Furniture,
Faculty of Applied Arts, Helwan University, Egypt**

Prof. Ashraf Hussein

**Professor of Environmental Design, Department of Interior Design and Furniture,
Faculty of Applied Arts, Helwan University, Egypt**

Dr. Sarah Fawzy Mustafa

**Lecturer, Department of Interior Design and Furniture, Faculty of Applied Arts,
Helwan University, Egypt**

Researcher. Hend Mahmoud El-Sherbiny

**Bachelor's degree in Interior Design and Furniture, Faculty of Applied Arts, Helwan
University, Egypt**

Hend4237@a-arts.helwan.edu.eg

Abstract:

Global thought in interior design, furniture and architecture in general tends to take care of the environment, its sustainability and preservation in addition to linking the cultures of peoples and modern technological thought. Also the emergence of the term sustainability, which refers to development strategies that take into account the requirements and desires of present and future generations together and aim to achieve balance in interests that serve everyone in the economic, social and environmental fields. This led to the production of ideas stemming from the spirit of popular cultures and immersed in the surrounding environment, with the addition of modern technological technologies for design that benefit the environment and creating a reciprocal relationship between society and the environment in a way that does not harm any who are they. This Primarily benefits the environment and develops solutions to the problems that faces environment and leads to their deterioration. This has been translated into the concept of environmental architecture, which is concerned with the physical natural environment, and recommends the use of materials that do not harm the environment and call for preserving the natural resource base.

Accordingly, some concepts emerged that must be preserved during the design, namely: the exploitation of natural energies (the sun - wind ... etc.), the exploitation of renewable natural resources or alternatives to them, relying on various environmental elements to develop the design idea. By achieving these points, the role of the designer comes on how to integrate these elements with the environment and how to draw inspiration and analysis of the elements of the environment. With the benefit of working hands in the place and the available handicrafts and craftsmanship to make the design strong and appropriate with the materials of the environment and the surrounding culture and the people residing outside and within the borders of this region and with the use of the method of recycling for the available materials and from here the concept of sustainability based on interest was achieved Environment, surrounding risks, cost, time and quality.