INTEGRATION CONCEPT & REGENERATIVE DESIGN AND THEIR RELATIONSHIP TO SUPPORT AND REVIVAL THE WORLD NATURAL HERITAGE SITES IN EGYPT

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Abstract

Architecture is as a container and the inner space as the content, each melting in one melting pot to produce the character and style of each historical period, as they are all closely linked and united in style and similar in spirit, so the integrative design systems came to mimic nature in shape and movement with the dictates of the unity of design Complementarity of thinking, through the orientation towards protecting nature in Egypt, especially the nature reserves because of their great importance, the amount of legacy that has been accumulated over the generations, including the areas of global natural heritage that deserve attention in the way it is presented and presented to the public in a manner befitting its cultural value And environmental. In addition to promoting ecotourism as a strategic focus for sustainable development due to its importance in terms of its return on national income, as well as being a propaganda interface that paints the correct image of Egypt’s future, culture and history with all its meanings. As well as emphasizing the Egyptian cultural identity of an environmental character in a way that is concerned with the spatial and temporal memory of the human being and its connection with the nature of the internal architecture of the museum by focusing on the idea of simulation and modeling using computer programs that implement this integrated system through three important design elements, the first element is to achieve mass The design is multi-responsive, the second is the conscious use of smart, flexible materials, and the third and most important element is processors and interactive kinetic technologies. Considering that natural resources are renewable, just like the interior design, the determinants of internal vacuum must adapt to the biosphere of the changing external environment with the least possible damage, in addition to supporting the balanced relationship between the human being and his vital environment by working to change the behavior of individuals towards this Ocean; To create a new generation that has an environmental culture that increases its ability to solve problems.

Keywords

Renewable design, integrative architecture thinking, global natural heritage site, reserves, Natural Resources in Egypt, Ecotourism, Sustainable Development, Simulation and Modelling, Multiple Responsive Design Blocks, Smart Flexible Materials, Interactive Kinetic Processors

Introduction

Natural resources are renewable, just like the interior design, so the determinants of the museum space attached to the global natural heritage sites must be compatible with the dynamic environment of the changing external environment with the least possible damage, and this process must take place endlessly over the generations. Because the best way to experience access to adaptive environmental museum spaces is to focus on the idea of simulation and modeling, using mathematical and engineering equations and computer programs that implement these.

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The integrated system, along with monitoring the efficiency of the used system through three important design elements, the first of which is to achieve a multi-responsive design block, the second is the conscious use of flexible smart materials, and the third and most important element is processors and interactive kinetic techniques.

Through the research, it is evident how important it is to take ecosystems as a source of inspiration and as a model for simulation in designing our built environment because it carries all the meanings of sustainability in all aspects of its work and performance. This level of simulation requires designers to have a degree of environmental knowledge about ecosystems and their development over the generations. This is combined with the integration of the design process with the social, political, economic, aesthetic and cultural factors, i.e. the human environment, all with the help of equipment and modern and multiple technologies.