The Curriculum of Architectural Design and the Future Architecture

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Abstract
Lately, the Education process in Egypt has been seriously affected by many changes. They are mainly affecting the high education in general and the architectural education in particular. All future studies are based on the following up of these changes and the guidance of their directions in various fields. Based on this information, the researcher chose the methodology of scenarios for all possible future events to study, applying the stages and steps of each scenario. Afterwards, each scenario is assessed in order to reach the best one that will help in the development and modernization of the educational process, as it is the foundation of the future youth who should be qualified to tackle the path of creativity and innovation in order to cope with the future changes and their results.

Keywords: Architectural Education, Methodology of Scenarios, Design, Future Architecture.

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SMART MATERIALS – TOWARD A NEW ARCHITECTURE

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Abstract

The latter few years have been marked by a new generation of buildings: buildings with various degrees of high technology, which are extremely ecological in their behavior through the intelligent use of functionally adaptive materials, products and constructions that are able to react to changes in their direct or indirect surroundings and adjust themselves to suit. The goals of this research are to focus on materials that combine questions of sustainability with the performance of building materials and to suggest a methodology that shall help architects and designers in choosing a suitable smart material for building design.

The paper defines the terms Smart Materials and Smart Technologies in architecture, pointed out the architectural perspectives in order to assess how architecture can develop further by using the new technologies, describes examples on completed projects and/or experiments by architects that deepened the knowledge. The research expounds the effectiveness of using smart materials to become an agent “towards a new architecture”.

Keywords: Smart Materials, Smart Technologies, Sustainability.

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References


17. http://www.landartgenerator.org/blagi/
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