

Applying Interactive Design Methodology in Educational Buildings

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Abstract:

The research paper discusses the impact of technological development on architecture and the emergence of interactive architecture as a trend in modern architecture. Interactive design is considered the transition of the traditional idea of design to the idea of modern design, which is used by users of spaces during use. Thus, human behavior and environmental functions become of great importance in interactive design. It is also considered one of the most important smart systems that are suitable for educational buildings for children, because interactive design emphasizes the relationship between humans and the elements of the space and the extent of their response to it and fulfillment of human requirements within the space. It achieves ease of education through active interaction between the learner, educational experiences, and the educational program, which contributes to raising the quality of education within educational buildings. With the emergence of the interactive design trend, a link will be created between the space's determinants and its users through materials that respond to the surrounding environment. This is to raise the efficiency of the quality of education through the use of interactive design techniques and modern teaching methods to bridge the gap resulting from traditional teaching methods and meet the needs of individuals more flexibly within the educational space in an effective manner to reach the highest levels of comfort and safety through the application of modern trends in design. It was necessary to develop a methodology to identify the basics of interactive design while applying all modern trends within buildings. The interior space for children must contain characteristics that develop the educational process and the ability of the space to respond to the requirements of these children by providing an environment in which they can coexist. The presence of technology on the development of information and the emergence of modern applications can be exploited in the interior space of buildings and educational institutions to help create a better environment for the users of the place. The primary goal of interactive design with users is to obtain comfort and safety for the child to control and dominate the elements around him easily and without assistance.

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