

## **Leveraging digital technology to achieve sustainable interactive work environments**

**Dr. Amara Elsayed Abd Alazeem Elsayed**

**Lecturer in interior design and furniture department - Faculty of Applied Arts - 6<sup>th</sup> of October University**

[Eng.amera.elsayed@gmail.com](mailto:Eng.amera.elsayed@gmail.com)

### **summary:**

The importance of work environments stems from their central role in inclusive and sustainable economic growth, which is important in advancing the process of progress and achieving the eighth goal of sustainable development, as well as the importance of environments Internal work in its area, the number of occupants, whether employees or an audience, means these buildings and the number of hours spent by the individual within his work environment and its reflection on the "health- safety- comfort" of the occupants of the vacuum and raising the level of competence of the workers, so attention had to be paid The design aspect of the work environment and thinking at a level, which is certainly reflected in the choice of direction design solution that suits each work area and the role it plays.

The design trends of the work environments have evolved upwards and downwards, negatively and positively as a result of the many political, economic and social conditions and conditions prevailing in each time contract. One of the most important contemporary design trends has been "sustainable design - environmentally friendly design", because of its positive impact on the environment, individual health and economic development. Hence the problem of researching how to apply sustainability principles and standards within internal work environments? How can modern digital technology be used to achieve a sustainable interactive work environment, so that we can keep up with the rapid development in this area? The importance of research lies in the study of the digital technology and technology that is needed in the design of work environments on the energy and environmental design system (LEED). Therefore, the research aims to achieve the concept of sustainability within work environments to reduce harmful emissions, energy consumption, and the research has reached the use of marginal technologies within work environments that play an important role in achieving many of the requirements of Internal design and in accordance with the system of water and environmental design (LEED) as it works to provide energy and water and improve the environment and achieve the required human, organic and psychological comfort.

### **Keywords:**

Interior Work Environments - Sustainable Work Environments - LEED System -Interactive Work Environments.