

## Urban Design as an Approach to Achieve Sustainable Green Urbanization

**Prof. Mostafa Mohammed Abdel Hafeez**

Professor of Architecture Department of Architecture Faculty of Engineering - Port Said University

[Whitehouse.egy@gmail.com](mailto:Whitehouse.egy@gmail.com)

**Assist. Prof. Dr. Marwa Mostafa Ahmed**

Associate Professor Department of Architecture Faculty of Engineering - Port said University

[mamostafa482@gmail.com](mailto:mamostafa482@gmail.com)

**Assist. Lect. Marwa Gomaa Eladham**

PhD, Faculty of Engineering, Department of Architectural Engineering, Port Said University

[marwa.eladham22@gmail.com](mailto:marwa.eladham22@gmail.com)

### □ **Abstract:**

Reaching sustainable urban societies has become a global goal that all countries strive to achieve as they are healthy societies and have a positive impact on their inhabitants, and in light of this, a set of goals that sustainable development seeks to achieve have recently been identified, and cities are also subject to sustainable urban design for a number of issues (urban, environmental, economic and social). According to a sustainable future vision, the orientation towards the concept of sustainability, which in turn represents a global requirement, is necessary to reach a socially, urban and environmentally sound environment that fits all housing categories in society, and the research dealt with the concept of sustainability and its main pillars with sustainable urban planning to reach the goals of sustainable development and the features of a sustainable urban community. Taking into account the concept of sustainable urban communities and their characteristics and addressing the principles and criteria of green design to achieve sustainable urbanization with different elements in terms of site selection and urban fabric and rationalization of water consumption with sewage treatment and the use of renewable energy resources with the use of environmentally friendly materials, the possibility of waste disposal and recycling and environmental quality For the void The urban community, then studying the sustainability of green urban communities globally according to the proposed principles with an introduction to the analysis of the urban, economic and social dimensions, then a global case study of an urban community that has won environmental awards and evaluated by the accreditation and evaluation organizations for sustainability in the city of Calgary in Canada by applying the principles and standards of sustainable urban design in it. To meet humanitarian needs and achieve self-sufficiency, to be safe and resilient, and to achieve sustainable future societies.

### □ **Keywords:**

Sustainable green design/ sustainable development/ sustainable urban societies/ human needs