

Ceramics and urban landscape design Analytical study of urban furniture in coastal cities

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Abstract:

The research deals with urban furniture as one of the components of the urban landscape of cities and its relationship to activities, movement and people in the urban space. This is done through four main axes: where the first axis presents the definition of urban furniture its classification and components, and criteria for the design of urban -furniture functional, environmental, ergonomic, aesthetic, technical, economic and etc.. - The second axis moves to the entrances to urban furniture design and its relationship to the formal construction of urban furniture,- Geometric Design, origami design, Tessellated Furniture (Repetition) Modularity, parametric design, organic design and sculptural design, while the third axis deals with a field study of garden furniture on the waterfront of Jazan city, specifically the northern Cornice, and evaluates its compatibility with the previous considerations addressed in the first axis by designing a model for analyzing and evaluating the elements of urban furniture in the northern Cornice The city of Jazan, Kingdom of Saudi Arabia. and finally in the fourth axis Applied The research presents a methodology for developing the urban landscape of the waterfront that was applied with the students of the graduation project, Faculty of Design, Architecture, Department of Applied Arts. The applied part relied on the different design approaches and the diversity of design sources and methods.

Keywords:

Urban furniture, garden ceramics, garden furniture design.

an introduction:

The urban space includes a huge amount of activities and movement and receives large numbers of city residents and visitors. The importance of urban spaces lies in their positive repercussions on the lives of individuals and the urban environment in view of their multiple functions, which are considered to be at the core of the public benefit. They are places of rest, recreation, and psychological calm for urban residents, and they enhance neighborhood relations and communication between residents, which strengthens their sense of belonging and familiarity with their areas of residence, as it works to upgrade citizens' tastes, their civic sense, and their environmental and social culture, and adds aesthetic touches to the urban environment, which is what is called interaction between man and the environment in a process urban planning.

Life within the urban space provides for the formation of collective consciousness, and citizens' sense of belonging; Therefore urban furniture contributes to the formation of urban culture because it is part of the physical urban space. The absence or inconsistency of these elements may also make life in that place difficult. Urban furniture must be thought of as one

of the elements that make up the urban environment and the quality of urban space; It is one of the factors affecting the social life in that space.

The rapid increase in the growth of societies and the overcrowding and the resulting pollution and the difficulty in the pattern and conduct of daily life in those urban places. The interest in designing green spaces and the design of furniture and supplements for gardens and public places has made a growing need among the residents of those communities because of the aesthetic and emotional needs they represent and their impact on the psychological state of man and preventing the visual disturbance caused by the concrete forests surrounding us; Therefore, designing urban furniture that is dynamic and sustainable enhances the quality of life.

Urban furniture is usually dealt with secondarily as a supportive product for the urban landscape, and the focus is usually on one aspect when talking about urban furniture, which is (dimensions - materials - methods of installation).

Research problem:

- 1- Were the functional, environmental, cultural and aesthetic standards of urban furniture taken into account to be compatible with the public parks of a coastal city (the waterfront of Jazan City)?
- 2- Does the urban landscape and urban furniture on the waterfront of Jazan express the city's identity, history and culture?
- 3- Can the development of the urban landscape affect the reduction of the negative impact of the Corona crisis on behavior patterns and psychological and health stresses resulting from periods of quarantine, bans, and movement restrictions?
- 4- Can ceramic urban furniture be an appropriate alternative for environmental, functional and aesthetic considerations in coastal cities?

research aims:

- 1- Presenting an analytical field study of the current urban furnishings of the waterfront of Jazan city and its relationship to environmental and cultural influences.
- 2- Enhancing the value of urban furniture and its role in achieving quality of life.
- 3- Presenting ceramics as an environmental raw material with morphological richness, technical and environmental flexibility, and high functional performance.
- 4- Developing the necessary standards for urban furniture made of porcelain.

Research hypotheses:

- 1- Studying the aesthetic foundations and standards associated with shape, color, size, and their relationship to the urban landscape that supports the role of urban furniture.
- 2- The compatibility of urban furniture with climatic and natural conditions reduces the chances of damage and maintenance rates.
- 3- Commitment to human factors in the design of urban furniture is a key factor in the success of the product.

research importance:

The quality of life and the promotion of belonging and identity is one of the axes of the Kingdom of Saudi Arabia's vision (2030), in which raising the quality of the urban landscape and its components is one of its most important elements, which affects the conscience and memory of society.

Research axes:

The first axis: the foundations of urban furniture design - classification and criteria.

The second axis: entrances to urban furniture design.

The third axis: a field study of urban furniture in Jazan.

The fourth axis: developing the urban landscape of the waterfront in Jizan.

Keywords: urban furniture, garden pottery, garden furniture design.

Results:

- 1- Providing a detailed study on the foundations of urban furniture design, classification, components, functional, ergonomic, environmental, economic and other criteria.
- 2- The importance of compatibility between the components of urban furniture in the same context with the difference in the quality of the product or the material, because the urban landscape is an indivisible whole, and the success or quality of the design of one component of the landscape will not intercede in solving the problem of incompatibility with the rest of the components of the context.
- 3- In spite of the simplicity of the components of urban furniture (seatings, umbrellas, planting basins...), the functional performance, environmental suitability and meeting the cultural requirements remain an essential element in the success of the product and its acceptance by the pioneers of public parks.
- 4- The biggest limitation of designing and producing garden pottery is the challenge of large size. However, the concept of profiling and prefabricated units can solve the problem of size as a result of the flexibility of the process of dismantling, assembling and rebuilding in different shapes and sizes according to the required and the area.

Recommendations:

- 1- The importance of urban furniture and its impact on the general urban landscape is no less than the importance of urban planning for gardens, and it cannot be done in isolation from the nature of the place and its urban, human and environmental components. Therefore, it is important that urban furniture be planned and designed in a way that reflects that identity and character of the place, and not to be treated as a secondary supplement, in which any prefabricated item or component is randomly included.
- 2- The hot, humid coastal environment is one of the harsh natural environments, so it is important to study the materials used and determine their physical, chemical and operational properties.
- 3- The urban furniture designer must put the concept of the cultural framework as an essential element in the design, and he must design the product within the framework of a theatrical

scene of relationships, individuals, and movement, rather than a product for sitting or shading, and so on.

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