

# **Environmental legacies and their impact on designing the interior spaces of modern residential homes in the Hashemite Kingdom of Jordan**

**Prof. Doaa Abdul Rahman Mohammed**

**Professor of Basics of Interior Design, Department of Interior Design and Furniture,  
College of Applied Arts / Helwan University.**

[doaagoda2018@gmail.com](mailto:doaagoda2018@gmail.com)

**Assist. Prof. Dr. Ibtisam Muhammad Khamis**

**Assistant Professor, Department of Interior Design and Furniture, College of Applied  
Arts / Helwan University.**

[dr.ebtesamkh@hotmail.com](mailto:dr.ebtesamkh@hotmail.com)

**Researcher. Ayman Mahmoud obeidat**

**Master student / Department of Interior Design and Furniture / College of Applied Arts  
/ Helwan University.**

[obeidat.ayman96@gmail.com](mailto:obeidat.ayman96@gmail.com)

## **Abstract:**

The geographical nature of the Hashemite Kingdom of Jordan is characterized by the diversity of environments and different climatic conditions, in addition to its great and varied richness in the cultural legacies found in the design of the internal spaces of the heritage houses. Those architectural legacies that have contributed to preserving the special features of peoples and countries and their cultural differences. With the increase in interest in these environmental components in design, it was found that many buildings and their designs contain many architectural environmental treatments, which can be used in the design of modern homes, as they work to enhance the internal environment by employing available environmental elements to reduce the negative effects on Construction and nature, take advantage of the natural environment in order to enhance the internal environment, which provides the highest levels of comfort in the design of homes and reduces energy consumption and saves the environment. Where the study monitors the environmental design and the concept of environmental design and the foundations and principles of environmental design, to identify the suitability of the design for these buildings with environmental architecture. Where the research intends to monitor and analyze how to make use of the heritage houses and their internal spaces in the design of modern houses, and one of the most important results of the research was that the planning of the heritage houses adopted the architectural style known as the house with an open central courtyard that performs its function as the axis of movement and the connection of all the facilities of the house with each other, in addition to its function In providing lighting and ventilation for the rooms of the house. As for the modern house, its layout was adopted with an outward orientation, and it lacks the architectural vocabulary through which the efficiency of lighting and ventilation is achieved. Also, the heritage houses used building materials that are compatible with the local environment, working to achieve thermal comfort for their residents by achieving more thermal stability than it does not require the use of mechanical conditioning, which in turn reduces energy consumption and does not cause a negative impact on the environment. In modern homes, most of the building materials

يناير ٢٠٢٢

مجلة العمارة والفنون والعلوم الإنسانية - المجلد السابع - العدد الحادي والثلاثون

used are manufactured and unsanitary. Heritage houses are characterized by providing natural lighting at different times, but in modern homes

**Keywords:**

design legacies, interior spaces, environmental design, heritage houses, modern houses.