

Inspired by design groups of Egyptian coastal environment achieve the aesthetic aspect of the upholstery fabric

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Abstract:

The design process stems from the artist's interaction with their environment. The artist interacts with the environment and draws inspiration from its design elements, based on the subject they wish to express. Egypt is blessed with diverse and varied environments. This diversity and variation in climate and weather have led to differences in environmental systems. Among these systems is the coastal ecosystem that extends across the coasts of the Red Sea and the Mediterranean. Therefore, many design elements expressing the coastal environment (marine organisms, fish, and coral reefs) have been inspired." This research explains the extent to which design elements can be reformulated to create designs used as furnishing fabrics. This is done to revive the heritage of the Egyptian coastal environment, making it appear in a unique way. These designs were executed using the double weave technique on a Jacquard machine. Six designs were created, and the best four were selected based on a questionnaire presented to (45) expert judges specializing in the textile industry from within and outside the university. The results showed that the best design was design No. 2, as it is balanced and harmonious, and there is a connection between all the elements used in it. Also, there is a balance between the mass and space within the design, in addition to its harmonious colors that are distributed in a creative way. Design No. (1) Followed closely, where the water droplet was integrated as if it were the movement of the wave, and the inspiration from the dolphin's movement led to a harmony of design elements. Design (3) recorded the lowest results due to the lack of connection between the design elements within it."

Research problem; How can the cultures and elements of the Egyptian coastal environment be utilized to achieve an artistic vision for designing upholstery fabrics inspired by coastal environmental elements?

Research aims: 1- The research aims to explore the nature of the Egyptian coastal environment as one of the traditional Egyptian art forms, highlighting its simplicity and elegance. 2- It seeks to emphasize the national identity of our heritage (the coastal environment) without distorting shapes and details, with the goal of creating innovative artistic works used for upholstery fabrics. 3- The research attempts to enhance public taste and overcome the materialistic tendencies of the modern era, which threaten the spiritual heritage of the Egyptian people, by designing artistic patterns for upholstery fabrics that reflect Egypt's rich cultural heritage

Importance of research: 1- Shedding light on the concept of the coastal environment in Egypt through its units and environmental elements and utilizing them in designs that can be implemented and used as upholstery fabrics. 2- Achieving a new artistic vision of heritage and benefiting from the treatments and solutions embedded in the rich Egyptian coastal environment

Hypothesis: 1- The elements and components of the Egyptian coastal environment can be utilized in innovative artistic works suitable for upholstery fabrics. 2- Studying various patterns and illustrations inspired by the Egyptian coastal environment

Research methodology: The research is based on the analytical-experimental approach.

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References:

- 1- Wafaa Mahrous Amar - An Overview of the Diversity and Conservation of Egyptian Flora – Assist Journal of Environmental Studies – Issue No. 22 – January 2002.
- 2- Ahmed Abdel Aziz Ahmed - Coastal Environment Management – Al-Dar Al-Alameda for Publishing and Distribution - Cairo - 2018.
- 3- Mahmoud Ajami Al-Kalabi - Structural and Decorative Aesthetic Design of Mashrabiya - College of Fine Arts, University of Babylon - Basra Arts Journal - Vol. 9, Issue 10 - Iraq - 2015.
- 4- file:///C:/Users/Hp/Downloads/Interior_Design_Design_Notes.pdf
- 5- Textiles and Dress Designing 12th Stud (TN 12th Textiles and Dress Designing English Medium) State Council of Educational Research and Training-printing Tamil Nadu Textbook and Educational Services Corporation-2019
- 6- <https://gphisar.ac.in/wp-content/uploads/2022/09/DESIGN-FUNDAMENTALS-1.pdf>
- 7- Ahmed Abdel Karim Salama – Environmental Protection Law (Pollution Control – Natural Resource Development) – Cairo – Dar Al-Nandi Al-Arabia – 2009.
- 8- Raja Dweidari – The Environment: Its Scientific Concept, Challenges, and Deep Intellectual Heritage – First Edition – Dar Al-Fikr – Damascus – 2003.
- 9- Mouse Mohammed Micah Hammed – Environmental Protection from Pollution Risks According to International Law and National Legislations – First Edition – Egypt, Arab Center for Publishing and Distribution – 2019.
- 10- Rashid Khoury Al-Shafer – The Environment – Al-Mo'assasa Al-Hadith for Publishing – First Edition – Egypt – 2011.
- 11- Mustafa Youssef Kofi – Environmental Economics and Globalization – Damascus, Syria – Dar Raglan Publishing, Printing, and Distribution – 2013.
- 12- Mahmoud Salah Al-Adly – Encyclopedia of Environmental Protection – Dar Al-Fikr Al-Jamie – First Edition – Alexandria – 2003.
- 13- The Third Egyptian National Report on the Convention on Biological Diversity – Ministry of State for Environmental Affairs, Central Administration for Nature Conservation – October 2005.
- 14- Aisha Hamid Abdul Mohsen – Published Research in Topographical and Social Studies Journal – Helwan University – Volume 28 – April 2020.
- 15- <https://www.sis.gov.eg/section/10/13553?lang=ar>
- 16- Gallia Ibrahim Al-Shania , heba Abdel-Tawab – Benefiting from the Aesthetic Values of Folk Heritage Elements in Designing Upholstery Fabrics Used in Tourist Villages – Journal of the Scientific Association of Designers – Vol. 11, Issue 6 – 2011.
- 17- Jars Khoury et al. – Interior Design (Furnishings) – Dar Qabis, Lebanon – 2002.
- 18- Karia j.nilson- interior textile- john wilery&sonsinc-Hobhen-New jersy-2007

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