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e - Proceedings



Proceeding for International Undergraduates Get Together 2024 (IUGeT 2024)
"Undergraduates' Digital Engagement Towards Global Ingenuity"

1st Edition



Organiser :

Department of Built Environment Studies and Technology, College of Built Environment, UiTM Perak Branch

Co-organiser :

INSPIRED 2024. Office of Research, Industrial Linkages, Community & Alumni (PJIMA), UiTM Perak Branch

Bauchemic (Malaysia) Sdn Bhd

Universitas Sebelas Maret

Universitas Tridianti (UNANTI)

Publication date :

October 2024

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Perpustakaan Negara Malaysia

Cataloguing in Publication Data

No e- ISBN:

e-Proceeding IUGeT 2024 1st Edition

e ISBN 978-967-2776-40-6



Unit Penerbitan UiTM Perak.

Cover Design: Muhammad Anas Othman
Typesetting : Arial

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The Eco 6

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ABSTRACT

In our project, our task was to create furniture that's not only comfortable but also eco-friendly. To achieve this, we incorporated sustainable and functional design elements. One such example is our multi-use chair, which serves both practical and versatile purposes. Additionally, we integrated features like recycle bins and used wood-plastic composite material to reduce environmental impact. Moreover, we included a donation box to encourage recycling and charitable acts. In terms of design, we emphasized repetition and symmetry to enhance visual appeal and functionality. Our primary goal was to produce furniture that's cozy, stylish, and suitable for everyone, particularly the students of UiTM Seri Iskandar, Perak. By combining comfort, sustainability, and functionality, we aimed to create pieces that cater to various needs while minimizing our ecological footprint. Our commitment to eco-friendly practices extends beyond material choice, including features that promote recycling and charitable giving. Ultimately, our furniture reflects our dedication to crafting items that not only provide comfort but also contribute positively to the environment and society. We believe that by prioritizing sustainability and thoughtful design, we can create spaces that enhance both comfort and well-being for all users.

KEYWORDS: Unity, recycle, sustainable, eco-friendly, functional

DESIGN DESCRIPTION

The Eco 6 project draws inspiration from the mesmerizing blue glaucus, also known as the blue dragon, a fascinating sea creature. We aim to raise awareness about the pressing issue of plastic pollution in our oceans. The alarming rate of plastic waste threatens marine life, and everyone must understand and address this issue. The choice of the blue glaucus as our muse was intentional. It's a tiny and unique creature that many people are unfamiliar with, mirroring the general lack of awareness about marine ecosystems. Through our design, we strive to spark curiosity and educate people about the importance of keeping our oceans clean. In our design, we incorporated the six cerata, or wing-like structures, found on the creature's body to create a versatile chair. You can flip this chair up to serve as a table or a bicycle rack, maximizing functionality and promoting space-saving solutions. Additionally, we used blue colour schemes to symbolize the blue glaucus, reinforcing the connection to the sea. To further encourage eco-conscious behaviour, we integrated recycle bins into the furniture, emphasizing the importance of recycling. Furthermore, we included a clothing donation box to foster a sense of community and promote charitable acts. We can call it charity recycling. While our furniture may not feature high-tech components, it remains practical and relevant to people's lives. By combining functionality with sustainability and social responsibility, we hope to inspire positive change and create a more environmentally conscious society.

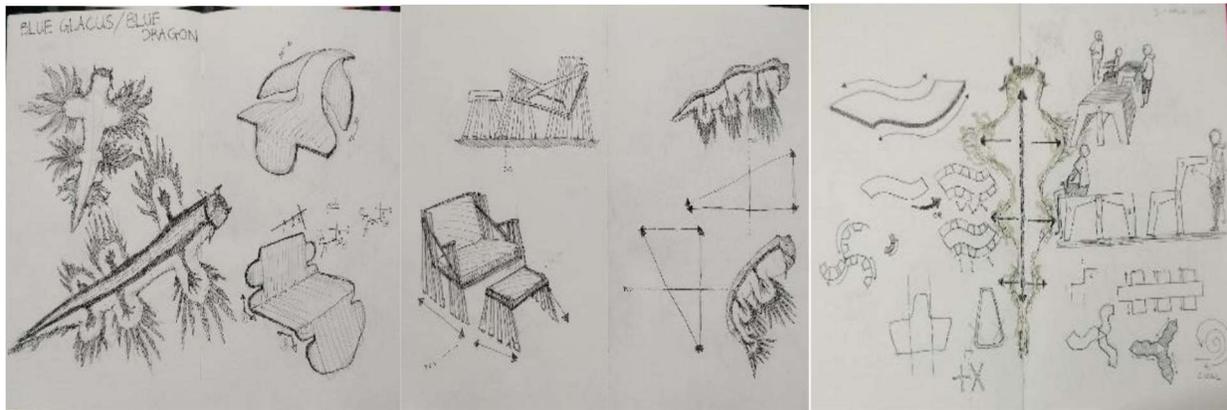


Figure 1: Furniture design development drawings

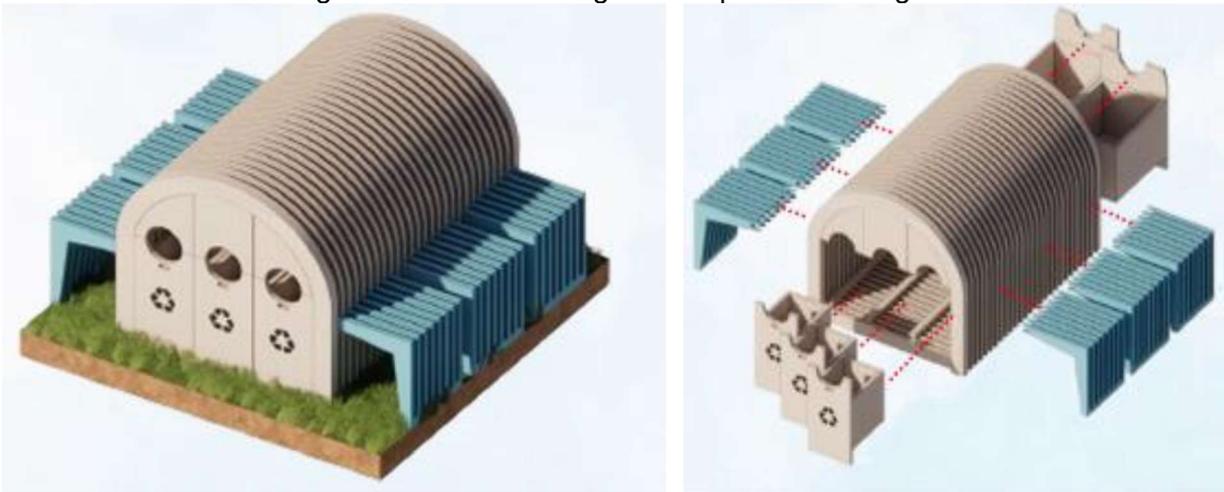


Figure 2: Design proposal

NOVELTY AND UNIQUENESS

1. **Inspired Design:** To increase awareness of marine conservation, the Eco 6 furniture draws inspiration from the blue glaucus, a lesser-known sea species. This unusual inspiration sets it apart from traditional furniture designs and starts a discourse about ocean preservation.
2. **Versatility:** The blue glaucus' six cerata, or wing-like features, enable the furniture to convert from a chair to a table or bicycle rack. This flexible functionality maximizes space usage and provides unique solutions for varying needs, making it adaptable to different locations and lifestyles.
3. **Blue color patterns:** in the furnishings honor the blue glaucus and symbolize the ocean. This symbolic representation enhances the furniture's aesthetic appeal and promotes environmental protection.
4. **Sustainable Features:** Eco 6 encourages recycling and responsible waste management by adding recycling containers to its furnishings. The furniture's impact goes beyond its basic usage because a garment donation box encourages community interaction and altruistic gestures.
5. **Low-Tech Relevance:** Eco 6 addresses environmental challenges in a practical and accessible way, making it relevant and meaningful. Users of different backgrounds appreciate its practical design and sustainability, making it a valuable complement to indoor and outdoor areas.

BENEFITS TO MANKIND

The Eco 6 furniture provides three major benefits for people. First, it teaches us about protecting our oceans by using features like recycling bins. Second, it's super handy because it can turn into a chair, table, or even a bike rack, saving space in homes or public places. Lastly, it encourages kindness by including a box for donating clothes. This helps bring communities together and makes it simple for everyone to help others. Overall, Eco 6 furniture is about being eco-friendly, practical, and friendly to our communities.

COMMERCIAL POTENTIAL

Today's market offers a plethora of outdoor furniture, yet it falls short in terms of functionality and sustainability. This presents an opportunity to market furniture that is both functional and sustainable, with the Eco 6 meeting all the mentioned criteria.

CONCLUSION

In conclusion, Eco 6 furniture embodies a holistic approach to design, offering practical solutions while promoting environmental awareness and community engagement. Through its innovative features, such as recycle bins, versatile functionality, and the inclusion of a clothes donation box, Eco 6 not only addresses pressing environmental issues but also fosters a sense of responsibility and kindness among users. By combining sustainability, practicality, and social impact, Eco 6 furniture emerges as a symbol of conscious living, advocating for a greener, more inclusive future for mankind and the planet.

ACKNOWLEDGEMENT

I would like to share my appreciation with the lecturers whose guidance and support were instrumental in creating a design that met the required criteria. Their expertise and encouragement played a significant role in this success. Furthermore, I want to acknowledge the organizers of the competition for providing a platform that fosters critical thinking and problem-solving skills. Participating in this competition has been an enriching experience, allowing me to explore innovative solutions and design multi-purpose furniture that addresses real-world challenges.

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Surat kami : 700-KPK (PRP.UP.1/20/1)

Tarikh : 20 Januari 2023

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Sekian, terima kasih.

“BERKHIDMAT UNTUK NEGARA”

Saya yang menjalankan amanah,

SITI BASRIYAH SHAIK BAHARUDIN
Timbalan Ketua Pustakawan

nar

Setuju.

27.1.2023

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