

e - Proceedings



Proceeding for International Undergraduates Get Together 2024 (IUGeT 2024)

"Undergraduates' Digital Engagement Towards Global Ingenuity"



Co-organiser:

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

Bauchemic (Malaysia) Sdn Bhd

Universitas Sebelas Maret

Universitas Tridinanti (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



Proceeding for International Undergraduates Get Together 2024 (IUGeT 2024) Undergraduates' Digital Engagement Towards Global Ingenuity e-ISBN : XXXXX

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Bird Nest Student Pavilion at UiTM Seri Iskandar, Perak

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ABSTRACT

"Bird Nest Pavilion": Inspired by the intricate architecture of avian dwellings, this unique pavilion embodies the elegance and functionality of a bird's nest. The structures feature a striking organic design with intertwining branches and a canopy-like roof that creates a sense of shelter and intimacy. Nestled within a serene natural setting, the pavilion offers a tranquil retreat for students to connect with nature and each other. Inside, curved seating areas and soft lighting evoke a cosy ambiance, inviting guests to relax and unwind amidst the surrounding greenery. With its harmonious blend of form and function, the Bird Nest Pavilion serves as a sanctuary for contemplation, reflection, and communal gatherings.

KEYWORDS: Avian dwellings, community engagement, natural ventilation, organic structure, surrounding greenery

DESIGN DESCRIPTION

The Bird Nest Pavilion is a stunning architectural masterpiece inspired by the intricate and organic structure of nature's bird nests. Its design features a series of interconnected, curvilinear elements that mimic the complexity and beauty of avian dwellings. This design has become a landmark for UiTM Seri Iskandar, and this multifunctional learning area pavilion design is known as "The Bird Nest" student hub. The pavilion is constructed primarily from sustainable materials, such as different types of timber fusion, reflecting a commitment to environmental stewardship. The concept of this pavilion is specifically inspired by one of many types of bird nests, which is "the sphere bird nest.". The pavilion's open-air design allows for natural ventilation and seamless integration with the surrounding landscape, inviting students to immerse themselves in nature while providing shelter from the elements. The interior space is flexible and adaptable, making it suitable for a variety of events and activities, such as workshops, studying, and community gatherings. Intricate patterns and textures reminiscent of woven twigs and branches adorn the exterior facade of the Bird Nest Pavilion, creating a visually captivating and dynamic structure. The use of natural materials and earthy tones further enhances its harmony with the environment, making it a sustainable and aesthetically pleasing addition to any outdoor setting. Overall, the Bird Nest Pavilion serves as a symbolic homage to the ingenuity of avian architecture while embodying principles of sustainability, community, and connection to nature.

NOVELTY AND UNIQUENESS

This design offers novelty and uniqueness through its innovative design inspired by the intricate architecture of bird nests, such as its organic design. Unlike conventional architectural structures, The Bird Nest Pavilion's design mimics the organic and fluid shapes found in nature, creating a visually striking and unconventional form that captures attention and stimulates curiosity. The



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flexible interior space of The Bird Nest Pavilion allows for a wide range of activities and events, making it a versatile and dynamic venue for gatherings, exhibitions, and community engagement. Its adaptability enhances its novelty by providing visitors with a variety of experiences. Beyond its physical attributes, the Bird Nest Pavilion carries symbolic significance as a homage to the ingenuity of avian architecture. It serves as a reminder of nature's potential for harmonious coexistence with the environment.



Figure 1: Bird Nest Student Pavilion

BENEFITS TO MANKIND

The Bird Nest Pavilion offers several benefits to students, such as its unique design, which provides students with a tangible example of bio-mimicry and sustainable architecture. Students can study under its shelter, which also alleviates the discomfort of hot or rainy weather. This design also includes amenities aimed at providing community space for students to gather, socialise, and engage in various recreational activities. The open-air design of the pavilion creates an ideal setting for outdoor classes, workshops, and group discussions. Students can benefit from fresh air, natural light, and a connection to nature while engaging in academic activities.

COMMERCIAL POTENTIAL

The Bird Nest Pavilion presents commercial potential driven by a growing market demand for ecofriendly and experiential architectural solutions. Its unique design and sustainable materials using timber fusion offer competitive advantages, attracting environmentally conscious clients seeking distinctive venues for events, exhibitions, and eco-tourism ventures. Furthermore, its adaptability to various functions and symbolic appeal contribute to its marketability. Leveraging partnerships with eco-concious brands and tourism agencies can further enhance its commercial viability. Overall, The Bird Nest Pavilion taps into a niche market segment while capitalising on the broader trend towards sustainability and experiential tourism, positioning it for success in the architectural market.



CONCLUSION

In conclusion, The Bird Nest Pavilion embodies a harmonious blend of innovative design, sustainability, and community engagement. Key findings from this project have highlighted its unique architectural approach inspired by nature, coupled with the use of sustainable materials, making it both visually appealing and environmentally responsible. Its versatility as a multifunctional space further underscores its significance in fostering community interaction and promoting learning. Moving forward, it is imperative to continue exploring opportunities to expand its reach and impact, such as establishing partnerships with educational institutions to promote environmental awareness on a larger scale.

ACKNOWLEDGEMENT

We extend our sincere gratitude to everyone who contributed to our group project on The Bird Nest Pavilion. Special thanks to our supervisor, Dr. Ts. Siti Norsazlina Haron, who is also our lecturer, for their invaluable guidance and support throughout the project. We also appreciate the dedication and collaboration of our fellow group members, whose diverse skills and perspectives enriched our work. Our gratitude extends to IUDec 2024 for providing resources and facilities. We are thankful to individuals and organisations who offered assistance, inspiration, and expertise. Lastly, we acknowledge the broader community for their interest and support. This project wouldn't have been possible without the collective effort and contributions of everyone involved. Thank you for being part of this journey.

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