

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)

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Nesthaven

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ABSTRACT

Nesthaven, nestled within the vibrant landscape of UiTM Seri Iskandar campus branch Perak, embodies the fusion of innovative timber design and sustainable principles. This visionary project marries architectural excellence with environmental stewardship, creating a harmonious haven where form seamlessly integrates with function. At its core, Nesthaven champions timber as a primary building material, harnessing its inherent strength, versatility, and eco-friendliness. Through cutting-edge design methodologies and advanced construction techniques, Nesthaven pioneers a new paradigm in sustainable architecture, pushing the boundaries of what is achievable with timber. Beyond its architectural prowess, Nesthaven serves as a catalyst for education and inspiration, fostering a culture of sustainability within the community. In essence, Nesthaven stands as a beacon of innovation and sustainability, uniting design excellence with a profound commitment to the planet and its people.

KEYWORDS: Eco friendliness, innovative, community, timber, education

DESIGN DESCRIPTION

Nesthaven, an architectural marvel nestled within the scenic landscape of UiTM Perak, embodies the perfect fusion of innovative timber design and sustainable principles. This visionary project redefines contemporary living by seamlessly integrating eco-consciousness with aesthetic brilliance. At its core, Nesthaven stands as a testament to architectural excellence and environmental stewardship. The purpose is twofold: to provide a sustainable living space while inspiring a cultural shift towards eco-friendly practices. Its key features include a modular design concept, utilizing advanced timber construction techniques to maximize efficiency and minimize environmental impact. Each module is intricately designed to optimize natural lighting, ventilation, and energy usage, creating a harmonious blend of functionality and beauty. The fusion timber aspects of Nesthaven set it apart from conventional architecture. Timber, sourced from sustainably managed forests, serves as the primary building material, imbuing each structure with warmth, character, and structural integrity. This innovative approach not only showcases the versatility of timber but also demonstrates its viability as a sustainable alternative to traditional building materials

NOVELTY AND UNIQUENESS

Unlike traditional pavilions, it maximizes natural light and ventilation while minimizing environmental impact through innovative use of materials and passive design strategies. Its fusion timber framework not only showcases the versatility of wood but also sets a new standard for ecoconscious building practices.



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Figure 1: View from auditorium



Figure 2: View from leisure area



Figure 3: View at stage

BENEFITS TO MANKIND

The Nesthaven offers multifaceted benefits, addressing critical environmental challenges through sustainable design principles while enhancing quality of studies for occupants. Economically, it provides cost-effective solutions and promotes local timber industries. By showcasing innovative sustainable technologies, Nesthaven advances knowledge and educates communities on eco-conscious living. Culturally, it fosters appreciation for traditional building materials and methods, enriching local heritage. Globally, it serves as a model for sustainable architecture, inspiring a shift towards greener practices worldwide.



COMMERCIAL POTENTIAL

Nesthaven addresses a growing market demand for sustainable structures, offering a unique competitive advantage through its innovative timber construction and eco-conscious design. The business model focuses on delivering high-quality, customizable pavilions while ensuring scalability through modular construction methods. Profit margins are optimized through efficient production processes and premium pricing for eco-friendly features. Regulatory compliance and certifications ensure adherence to industry standards, enhancing market credibility. Intellectual property strategy involves safeguarding unique design elements and construction techniques to maintain a competitive edge in the market.

CONCLUSION

The Nesthaven design profoundly influences UiTM Perak students by serving as an educational and inspirational hub. Its innovative sustainable architecture offers students a real-world example of environmentally conscious design principles in action, enriching their academic studies with practical knowledge and hands-on experience. Moreover, the Pavilion provides a dynamic space for social and cultural activities, fostering a vibrant campus community and enhancing students' overall lifestyle.

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We extend our heartfelt gratitude to all individuals whose contributions have been instrumental in the development and success of the Nesthaven design.

REFERENCES

- Forest For The Trees. (2024). Rogers Point Park Masterplan. Retrieved from https://www.ffttrees.com/rogers-point-park-materplan
- Sscollege. (2019). Sullamussalam Science College Areekod. Open Air Stage. Retrieved from https://sscollege.ac.in/InfrastructureDetail/354
- eKapija. (2023). Tender For Construction of Caricin Grad Visitors Center Worth RSD 166.5 Million. Retrieved from https://www.ekapija.com/en/news/4208384/tender-for-construction-ofcaricin-grad-visitors-center-worth-rsd-1665-million

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Saya yang menjalankan amanah,

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