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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

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ABSTRACT

This design incorporates the fishbone's organic elegance to represent resilience, strength, and connectivity. Drawing inspiration from nature's efficiency, it emphasizes structural integrity and spatial flow. The layout is inspired by the dynamic geometry of the fishbone, which depicts easy movement and flexible use of space. We adopt its sustainable philosophy, optimizing use while reducing our environmental impact. Similar to the robust skeleton of a fish, this concept encourages lifespan and environmental harmony. Our aim is to design architectural environments that exude life, purpose, and eternal beauty by combining form and function.

KEYWORDS: Organic, dynamic, resilient, harmony, connectivity

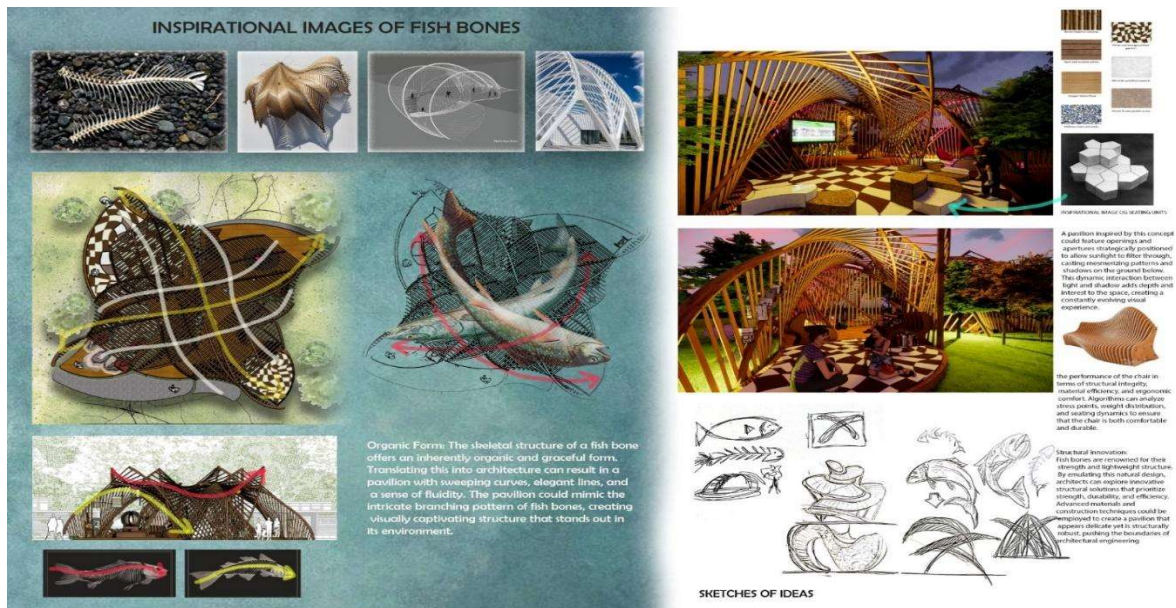
DESIGN DESCRIPTION

Form and Structure : Its beautiful combination of form and function is modeled after the delicate, yet strong structure of the fishbones. Its rib-like, repeating components form a visually arresting profile that evokes the intricate design found in nature. Visitors experience its organic features through the fluid curves and dynamic angles, inspired by movement and vitality. The pavilion's structural integrity is made of intersecting timber struts and is engineered for resistance, guaranteeing stability against outside influences. The pavilion invites guests to ponder the beauty of harmony in both form and structure by reflecting the connection through its balanced arrangement that mirrors the symmetry of nature.

Materials and Textures: The pavilion's mostly wood framework, made of reclaimed wood, is environmentally friendly and lowers the carbon impact of the building process. Natural grain patterns offer warmth and visual interest to the semi-open structure made of interwoven timber beams, and their smooth, organic textures evoke harmony with the surrounding landscape.

Functionality and Flexibility: Its complex geometric design provides functional areas in addition to visual appeal. The open layout provides flexibility for various activities and allows natural light and air to circulate freely. This modular pavilion exhibits a tasteful fusion of practicality and artistry while accommodating a variety of activities.

Integration with Surroundings: Tucked away in peaceful, natural surroundings, the pavilion blends in well, radiating harmony and tranquillity. Encircled by luxuriant foliage and enveloped by the soft pattern of trees, it transforms into a serene haven, beckoning guests to fully appreciate the splendour of nature. The earthy hues and natural materials used in the pavilion's design fit in perfectly with the surrounding scenery. Here, in the serene embrace of nature, the pavilion provides a haven for reflection and renewal.



NOVELTY AND UNIQUENESS

Blending Nature and Architecture: Andapung utilizes natural materials and green technologies to create a structure that is both aesthetically pleasing and environmentally responsible. The pavilion's design harmoniously blends nature and architecture by incorporating natural materials creating a seamless transition between the built environment and the natural world. This synergy not only enhances the aesthetic appeal but also minimizes the ecological footprint, reflecting commitment to environmental sustainability.

Crowd Approaches: Andapung's sustainable approach is evident in its serene greenery and tranquil surroundings, where renewable resources and energy-efficient designs merge seamlessly with the lush landscape, fostering a space of ecological harmony and natural beauty. This pavilion draws a wide array of visitors with its educational workshops, cultural showcases, community events, eco-tourism appeal, and tranquil spaces for relaxation, all fostering a vibrant and diverse atmosphere.

BENEFITS TO MANKIND

Community Engagement: The pavilion enhances social cohesion by offering a peaceful venue for community gatherings and cultural activities. Andapung also promotes environmental awareness, showcasing sustainable practices that contribute to the preservation of the beauty of the natural world and the natural environment.

Educational Growth: Andapung provides an area for art, gathering, and relaxation, enriching educational experiences by facilitating creative expression, collaborative learning, and reflective thinking, thereby cultivating a comprehensive educational environment that nurtures the mind, body, and spirit.

Holistic Development: Andapung's holistic development aspect nurtures the complete well-being of individuals by providing spaces for relaxation and introspection, alongside areas that stimulate mental and artistic growth, fostering a balanced and enriching experience that caters to the body, mind, and soul.

COMMERCIAL POTENTIAL

This pavilion's commercial potential is in its multifunctional design and attracting diverse revenue streams. Andapung can host events, ranging from art exhibitions to educational workshops, thus drawing visitors and fostering partnerships. Its sustainable features may qualify for green incentives, reducing operational costs. Additionally, its serene environment makes it an ideal venue for wellness retreats and eco-tourism, appealing to a growing market of environmentally conscious consumers. By combining cultural, educational, and ecological elements, the pavilion can become a unique destination, generating income while promoting sustainable practices.

CONCLUSION

In summary, ANDAPUNG, inspired by the organic beauty and structural ingenuity of fish bones has the potential to be truly amazing, offering a harmonious blend of aesthetic appeal, functional efficiency, sustainability, and interactive engagement. It would not only serve as a stunning architectural landmark but also as a testament to the creativity and innovation inspired by nature's design principles.

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