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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)**

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## **As'taka Raya Pavilion**

Wan Nur Tasnim Taram Satiraksa<sup>1\*</sup>, Nurul Hizzati Mohd Padli<sup>2</sup>, Nur Ain Sofia Nazri<sup>3</sup> & Nazrul Helmy Jamaludin<sup>4</sup>

<sup>1,2,3,4</sup>Programme of Interior Architecture, Department of Built Environment Studies & Technology, College of Built Environment, Universiti Teknologi MARA (UiTM) Perak Branch, 32610 Seri Iskandar, Perak, Malaysia

\*2022485766@student.uitm.edu.my

### **ABSTRACT**

As'taka Raya is timber-based inspired by Malaysia's national flower known as Hibiscus or Bunga Raya. Raya in Malaysia can also be interpreted as celebration. As a multiracial country that consists of Malay, Indian and Chinese which contributes to many celebrations such as Eid-Al Fitr, Deepavali and Chinese New Year. Despite the differences, Malaysian people find a way to create unity among themselves. Hence, the idea of As'taka Raya was created to enhance the unity and creating an easy space without any boundaries between the Malaysia's students. This space can be used as a place for gathering and bonding to encourage students to gain more social skills. This space also provides a relaxing area for those who want to seek serenity and tranquility. As'taka Raya offers a couple of activities for students such as gardening, discussing, working, and recreational activities.

**KEYWORDS:** Gathering, relaxing, garden, hibiscus, unity

### **DESIGN DESCRIPTION**

The proposed layout design for the As'taka Raya was solely based on the Hibiscus flower from its five petals to their long antenna. As'taka Raya is divided into an open area and closed area. The open area is specifically used for hosting events and gatherings. We proposed timber and concrete fusion bleacher that can be used as a seating or stage that will instantly create a lively ambience. Leaf-shape glass roof was designed above the bleachers to act as shelter from the harsh weather. These roofs are supported using vertical timber columns that also function as partition and create smooth air flow. To blend in with nature, greenery was planted around the perimeter and a tall slender tree was planted in the middle of the pavilion to replicate the Hibiscus antenna. Continuing to the open area, students will be greeted at a special area specifically for gardening. The area proposed focuses on encouraging students to plant their own crops that will eventually help them gain side income by selling the crops. A table and chair complete with power sockets are also provided for a comfortable working and discussion area. The built-in hanging net creates a peaceful lounge area for those who want to seek serenity and tranquility. Details of the hibiscus petals can be seen through timber panels that have been arranged to mimic the flowers veins and fire resistance glass was proposed for safety reasons and to refract daylight into the space. These roofs are also supported by vertical timber columns around the perimeter.



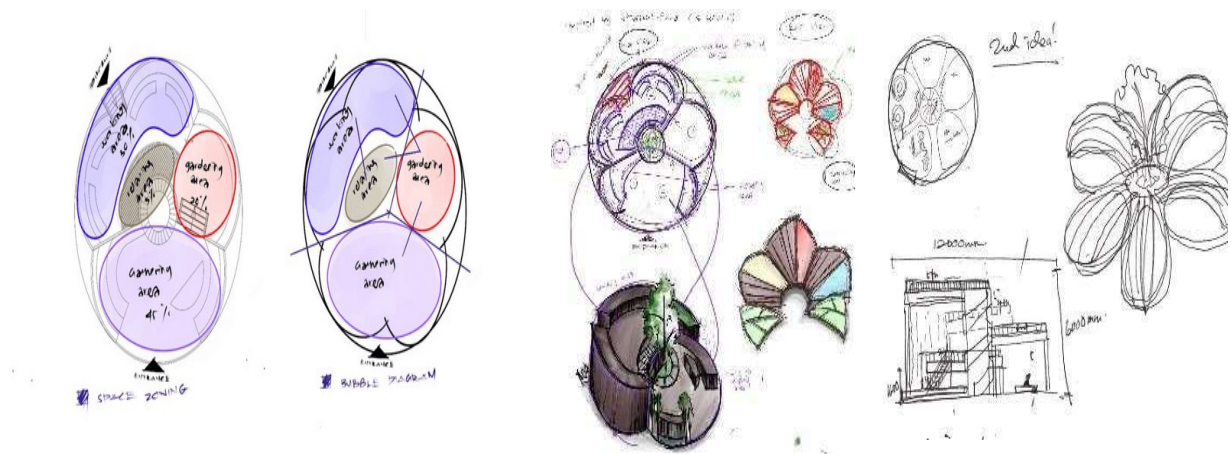


Figure 1: Image of the progress As'taka Raya design

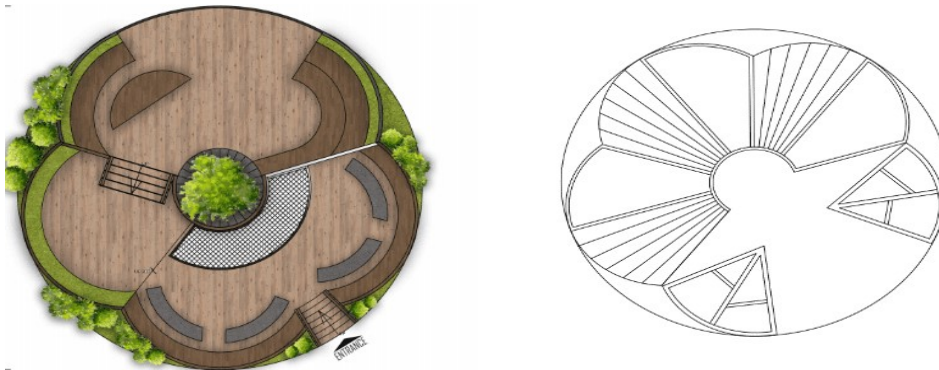


Figure 2: Image of the layout and roof design As'taka Raya



Figure 3: Image of the perspective view in any angles

## **NOVELTY AND UNIQUENESS**

As'taka Raya layout enhances user experience and improves efficiency that can offer fresh perspective and help students to push their boundaries of conventional thinking. The platform that is designed in petals shape helps to divide each area to its own functionality without feeling it separated. The embodiment of hibiscus flower seamlessly blends into the nature surrounding due to it is part of the flora species.

## **BENEFITS TO MANKIND**

The proposed As'taka Raya design uses eco-friendly building materials and technology that is benefits to the users and acts as a safety precaution. Bamboo is the main wood material used because it is strong, durable and versatile which is easy to maintain and clean. Bamboo can be harvested in a relatively short span of time making it easy to gain. To add more, fire resistance glass is used throughout the roof to overcome high heat. A renewable energy system which is solar panels was proposed to be use around the pavilion as the electrical main source of the pavilion. Converting heat into energy helps to reduce the usage of reliance on traditional grid power sources which often rely on fossil fuels which is very harmful for the environment. Plants are planted around the area to increase oxygen level to help human brain to circulate blood and oxygen throughout their body.

## **COMMERCIAL POTENTIAL**

The As'taka Raya holds considerable promise for commercial potential owing to its distinctive aesthetic appeal since its design is heavily inspired of a hibiscus flower. The intricate petal structures make it visually pleasing, unique and could attract a lot of users. Other than that, a design inspired by this flower could resonate with people who appreciate cultural connections, as the hibiscus holds cultural significance in various parts of the world, symbolizing beauty, hospitality, and tropical environments, making it appealing for events, exhibitions, or tourist attractions. Besides that, event planners and organizers are often on the lookout for distinctive venues that could provide memorable experiences for attendees and so this space could be one of the choices due to its design. In locations with a floral theme, such as botanical gardens, resorts, or parks, a hibiscus-inspired pavilion could serve as a focal point or gathering space. It could attract visitors seeking unique photo opportunities, relaxation, or cultural experiences. Lastly, the incorporate sustainable design features, such as renewable materials, energy-efficient systems, or greenery that supports local ecosystems would align with growing consumer preferences for environmentally conscious experiences. This demonstrates that The As'taka Raya possesses sufficient qualities to guarantee a high potential for commercial success.

## **CONCLUSION**

In conclusion, the "As'taka Raya" pavilion inspired by the elegant form of the hibiscus flower and crafted from timber, concrete and glass, encapsulates both aesthetic beauty and functional versatility. With its organic curves and sustainable materials, this space offers a harmonious blend of nature and architecture, providing a serene space for relaxation, contemplation, social gatherings, and cultural events. Not only that, this benefits a lot to the environment as its design is very eco-friendly. Offering some experience with gardening area, built-in net seating and large seating areas. This pavilion provides several experiences for users to indulge in. Serving not only as a hub for community interaction but also as a serene retreat, the As'taka Raya pavilion enriches any landscape with its versatility and appeal.

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Prof. Madya Dr. Nur Hisham Ibrahim  
Rektor  
Universiti Teknologi MARA  
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**SITI BASRIYAH SHAIK BAHARUDIN**  
Timbalan Ketua Pustakawan

*nar*

*Setuju.*

*27.1.2023*

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