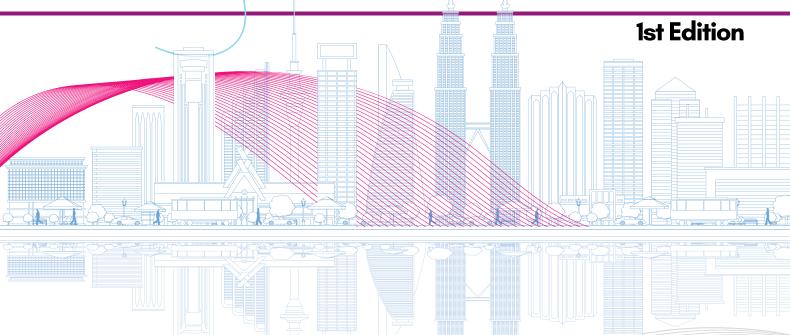
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Proceeding for International Undergraduates Get Together 2024 (IUGeT 2024)

"Undergraduates' Digital Engagement Towards Global Ingenuity"



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

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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)

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e-ISBN: XXXXX

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e-ISBN: XXXXX

Serenity Sanctuary: The Rehal Pavilion

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ABSTRACT

Nestled near the main entrance area of UiTM, the Rehal Pavilion serves as a multifunctional hub, inspired by the elegant shape of a rehal. Divided into two areas reminiscent of the opening of a rehal, this pavilion offers a harmonious blend of outdoor learning and recreational spaces. Its design, adorned with geometric patterns, exudes both creativity, practicality, and multifunction. Students gather here to connect with peers, whether for collaborative study sessions or casual interactions, serving as a student hub. The pavilion's amenities, including access to free Wi-Fi, a charging port area, and easy access to campus information, foster a vibrant and dynamic atmosphere where energy flows freely among students. Aside from its social purpose, the pavilion functions as an outdoor learning space, encouraging inquiry and discovery. Its inclusive design makes it accessible for people of all abilities, demonstrating a dedication to diversity and equal opportunity. Whether seeking safety in solitary study or companionship in group activities, the Rehal Pavilion provides a welcoming environment for all, with a focus on meeting students' different needs.

KEYWORDS: Friendly design, multifunctional space, outdoor learning activities, student hub

DESIGN DESCRIPTION

Located in the heart of UiTM's campus, the Rehal Pavilion is a visionary architectural piece that precisely combines efficiency with artistic innovation. It serves as a multifunctional hub, inspired by the elegant shape of a rehal. Divided into two areas reminiscent of the opening of a rehal, this pavilion offers a harmonious blend of outdoor learning and recreational spaces. Adorned with geometric patterns, its design exudes creativity, practicality, and multifunctionality. It serves as a student hub, fostering connections among peers through collaborative study sessions and casual interactions aided by amenities like free Wi-Fi and charging ports. Additionally, it functions as an inclusive outdoor learning space, promoting inquiry and discovery while ensuring accessibility for people of all abilities. Situated conveniently outside the main gate, the pavilion welcomes students seeking a peaceful study environment and offers educational opportunities for public visitors interested in UiTM. Sustainable features, including solar panels, which power water curtains and LED lighting, reduce carbon footprints and promote environmental stewardship. Fusion timber elements, particularly redwood, lend timeless elegance, while structural steel ensures durability and architectural flexibility. A seamlessly integrated user interface facilitates intuitive navigation and enhances accessibility, with interactive displays providing educational content about UiTM's history and academic offerings. Ample shaded seating invites relaxation in the natural environment, fostering tranquility and contemplation. In conclusion, the Rehal Pavilion embodies sustainability, cultural symbolism, and educational functionality, serving as a vibrant focal point within the UiTM campus and a welcoming oasis for all seeking respite and enlightenment.



NOVELTY AND UNIQUENESS

This design introduces a novel approach by drawing inspiration from seldom-utilised forms of rehal, traditionally used for holding sacred texts in Islamic culture. It innovatively applies the elements, shapes, colours, and appearance of the rehal to pavilion construction, seating areas, and ventilation blocks. Leveraging a sophisticated material combination of diverse wood types symbolizes the rehal's varied shapes and carvings, exemplifying a fusion of tradition and modernity in architectural expression. This integration of cultural heritage with contemporary construction techniques marks a significant departure from conventional design practices.

Development of Ideas

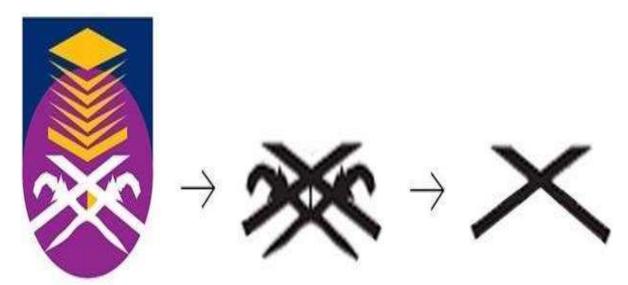


Figure 1: The use of rehal symbolizes the university as a platform to convey and radiate knowledge.

BENEFITS TO MANKIND

This design presents a groundbreaking approach to tackle the problem of students prioritizing their studies over health issues, while simultaneously alleviating the discomfort resulting from hot weather. The pavilion concept integrates intriguing features such as a reflexology stone path, strategically designed to massage and stimulate acupressure points, promoting overall well-being. Additionally, incorporating a water curtain serves a dual purpose: reducing air humidity and purifying airborne particles, enhancing the indoor environment. This holistic approach revolutionises traditional study spaces by prioritising both physical comfort and academic focus, setting a new standard for student-centric wellness architecture.

COMMERCIAL POTENTIAL

An outdoor space that fosters an immersive learning environment is designed to spark creativity and ignite curiosity. Highlights of the design include the potential growth of the eco-friendly market through the promotion of learning symbols in an open-air environment. From a business perspective, the pavilion offers a versatile space for various activities such as an outdoor classroom, a hangout area, and a leisure park. The pavilion structure design will be considered for patent registration as a form of protection for our intellectual property.



e-ISBN : XXXXX

CONCLUSION

The Rehal Pavilion at UiTM represents a dynamic fusion of relaxation, education, and sustainability. It functions as a peaceful leisure park, an outdoor learning hub for students, and an informative site for the public, all while incorporating sustainable features like solar panels and eco-friendly materials. The pavilion, inspired by the rehal symbol in UiTM's logo, seamlessly integrates cultural symbolism with modern architectural expression, setting a precedent for innovative design practices. Its unique features, such as reflexology stone paths and a water curtain, prioritise both physical comfort and academic focus, redefining traditional study spaces. The pavilion stands as a testament to the university's commitment to fostering well-being, knowledge dissemination, and environmental stewardship, heralding a new era in student-centric wellness architecture. Future directions may explore further integration of sustainable technologies and cultural motifs, enhancing the pavilion's functionality and aesthetic appeal.

ACKNOWLEDGEMENT

We extend our heartfelt gratitude to all those who contributed to the development and success of our pavilion design. Special thanks to the IUDEC 2024 organiser committee for providing this platform and opportunity for creativity. Our appreciation also goes to the esteemed judges for their time, expertise, and valuable feedback. We are grateful for the guidance and encouragement provided by our mentor and advisors, Dr. Siti Norazlina binti Haron and Sir Raja Hazman Shah bin Raja Shahrulzaman, in finishing this project. Additionally, we acknowledge the collaborative efforts of our team members, Adlina Syazwani Arupudin, Fauzana Syakirah Zaharullai, and Muhammad Aiman Hairul Azlee, whose dedication and ingenuity have brought our vision to life. Lastly, we thank our families, friends, and supporters for their unwavering encouragement and belief in our project.

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