e – Proceedings

IUGeT

Proceeding for International Undergraduates Get Together 2024 (IUGeT 2024)
"Undergraduates' Digital Engagement Towards Global Ingenuity"

1st Edition

e – Proceedings

IUGeT

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

Universitas Sebelas Maret

Universitas Tridinanti (UNANTI)

Cover Design: Muhammad Anas Othman
Typesetting : Arial

IUDeC 2024 Committee

Project Leader
Ts. Dr Azizah Md Ajis

Assistant Project Leader
Ts. Nazrul Helmy

Secretary
Dr Afzanizam Muhammad
Siti Rohamini Yusoff

Treasurer
Dr Nurrajwani Abdul Halim

Graphics Team
IDr Ts Nordin Misnat (Head)
Muhamad Irfan Mohd Anuar
YM Raja Hazman Shah Raja Shahrulzaman

Website Team
Dr Nurbaidura Salim (Head)
Dr Wan Nur Rukiah Arshard
Dr Farah Salwati Ibrahim

Promotion Team
Jazmin Zulkifli (Head)
Farid Al Hakeem
Gs. Nurain Mohd Tarmizi
Dr Norizan Mat Akhir

Jury & ICT Forensic Team
Dr Muhammad Rijal Mohamad (Head)
Dr Siti Norsazlina Haron
Dr Wan Noor Anira Wan Ali
Ts Izzat Anuar

Registration & Certificate Team
Dr Atikah Fukaihah Amir (Head)
Dr Puteri Yuliana Samsudin

Competition & Documentation Team
Norfazillah Ahmad (Head)
Dr Norashikin Abdul Karim

Publication Team
Nur'Ain Ismail (Head)
Siti Nurhayati Hussin (Chief)
Shafikah Saharuddin (Sub-chief)
Ts Sr Dr Nor Nazihah Chuweni
Dr Nor Syamimi Samsudin
Dr Nurhasyimah Ahmad Zamri
Noor Anisah Abdullah @Dolah

Dr Syed Ahmad Qusoiri Syed Abdul Karim
Dr Iryani Abdul Halim Choo
Dr Nor Asma Hafizah Hadzaman
Noraini Md Zain
Abdul Muhaimin Ab Wahid
Noor Aileen Ibrahim

Pavilion Hide and Seek as a Sustainable Social Hub

Nur Ain Syafiqah Mohamad Khanapi[1*], Siti Maisyara M Mokhtar[2], Dayang Nur Ain Nasir[3] &
Sayed Muhammad Aiman Sayed Abul Khair[4]

[1,2,3,4]Department of Built Environment Studies & Technology, College of Built Environment,
Universiti Teknologi MARA (UiTM) Perak Branch, 32610 Seri Iskandar, Perak, Malaysia

*sayed705@uitm.edu.my

ABSTRACT
The intake of students at Uitm Seri Iskandar is increasing from time to time, and yet they do not have any social hub or a Chill place. Therefore, designing Chill places that are beneficial and provide much-needed space for students involves integrating elements that support learning, social interaction, and relaxation. The Social hub designed for students serves as a multi-functional space that fosters learning, social interaction, and cultural engagement in the outdoor environment. Therefore, the idea of a social hub place is to help students with Study and Learning Spaces, Social Interactions, and Events and Activities. This place is close to the main entrance of UiTM SERI ISKANDAR and faces the lake. Since all UiTM students are Malaysian citizens, applying the Malay language to the concept of Selection "Kerawang: Punca Rahsia" to design a social hub is a good idea. This idea reveals an intricate design hidden in plain sight, like a "Hide & Seek" game concept. This structure combines traditional architectural elements with modern educational needs, creating an open, versatile, and inviting area that supports various student activities. Key features include an elevated platform for group discussions and events, flexible seating arrangements, and integration of technology, such as Wi-Fi and charging stations, to enhance the learning experience. The use of sustainable materials and environmentally conscious design ensures the social hub is both durable and harmonious with its natural surroundings. Additionally, the structure's design reflects the cultural identity of Malay students, providing a sense of belonging and pride. The social hub is not only a shelter but also a chill place that promotes collaboration, creativity, and relaxation, making it an essential part of the student campus experience. The design idea of this social hub is expected to contribute to sustainability in its operations and give hope to students to support learning, and social interaction to build identity in becoming valuable people in the future.

KEYWORDS: Social interaction, multi-functional, learning, versatile, sustainable

DESIGN DESCRIPTION
The Social Hub for students is designed to be a versatile and flexible facility that incorporates student identity, sustainability, and interactive features, creating a vibrant centre for education, socialising, and leisure activities. The design combines classic architectural aspects with contemporary functionality, resulting in a significant campus landmark that represents the spirit and inventiveness of the student community (Lippman, 2013). The semi-open building showcases an elevated platform, adorned with an undulating roof that draws inspiration from Malay architecture. This design not only offers shade but also encourages natural airflow. This design guarantees a pleasant atmosphere even during hot weather conditions (Lopez-Chao & Lopez-Pena, 2021).

Interactive walls, such as whiteboards and digital screens, foster creativity and cooperation, while contemporary technology, including Wi-Fi access and charging stations, guarantees that the area is well-equipped for academic and social activities (Sirinterlikci, 2018). The promotion of inclusivity is achieved by incorporating design components that are easily accessible and by using energy-efficient lighting, which improves both safety and ambience (McMahon & Bhamra, 2012). The open layout of the hub allows for flexible seating configurations, enabling it to accommodate group conversations, individual studies, and workshops. It functions as a central hub, promoting a feeling of camaraderie and inclusion among students (Leicht et al., 2009). The building is very adaptable and can accommodate small-scale events and performances. Its modular design enables easy reconfiguration or enlargement based on requirements. The hub places a strong emphasis on sustainability by including eco-friendly materials such as bamboo and repurposed wood. This not only strengthens its connection to nature but also promotes mental well-being (Okonchenko & Okonchenko, 2023).
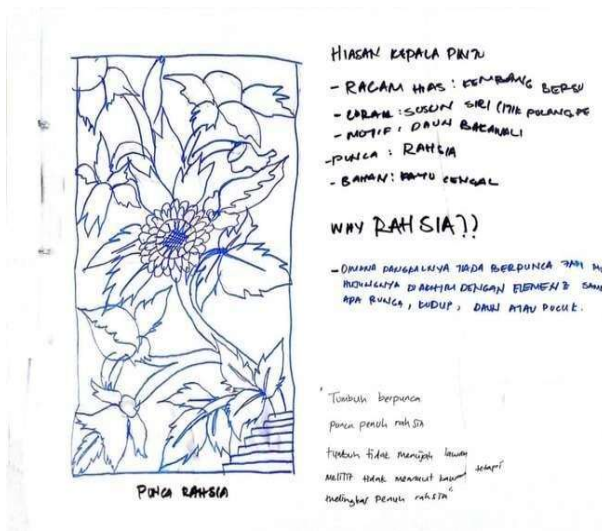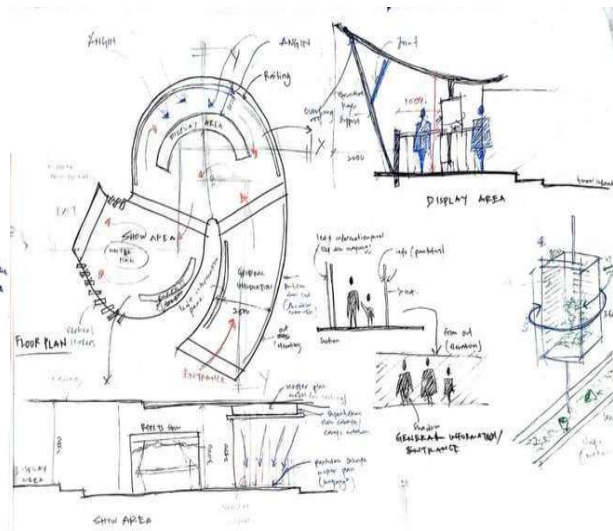

Figure 1: Idea and concept

Figure 2: Design programming

Figure 3: Final design

NOVELTY AND UNIQUENESS

Incorporating technology, sustainability, and cultural relevance, the uniquely creative and adaptable building that is the Social Hub for students transcends conventional architecture. The campus community depends on this dynamic area since it offers a flexible and motivating atmosphere for well-being and education. Using environmentally- friendly building techniques and materials like carbon fibre and wood, the Dynamic Roof Structure—which can change with the seasons—showcases movable components and interchangeable stages making the Social Hub flexible for several uses. Inspired by traditional Malay homes, this area blends modern technology with ancient architectural elements to provide a fusion of history and contemporary design trends. Furthermore, improving the educational process for students are outdoor education technologies including sound systems and digital whiteboards.

BENEFITS TO MANKIND

For students, the Social Hub is a thorough system that tackles important problems, advances welfare on campus, and fosters environmental responsibility. To satisfy local requirements as well as worldwide ones, it provides social, cultural, educational, and financial advantages. Through its creative design and multifarious purposes, it improves the learning process, and the student experience, and the global community becomes more linked. The centre offers students a serene setting free from distractions so they may unwind and connect, therefore promoting their general well-being. Offering long-term financial gains, its sustainable design encourages biodiversity, supports local wildlife, and lowers energy costs, therefore acting as a model for environmentally friendly construction and sustainable living at the university.

COMMERCIAL POTENTIAL

This project is to establish The Social Hub, an inclusive area meant to meet the changing demands of modern students, thereby building a vibrant community inside the university campus. The Social Hub presents a fresh chance for a creative learning environment improving students' knowledge experience, output, and environmental sustainability. Furthermore, its modular design—like putting together a massive puzzle—represents a construction breakthrough that lets one be flexible, and simple assembly is possible. The project stresses building an ideal environment for connectivity and functionality by knowing and using the particular demands of students.

CONCLUSION

In education, social hubs present a creative and multifarious way to improve the surroundings for learning. Their adaptive and sustainable learning environments give a competitive advantage and satisfy market needs. They encourage sustainability and lower the environmental impact by blending traditional and modern design with eco-friendly materials, therefore tackling important problems in contemporary schooling. The whole approach of the design makes it indispensable for educational institutions and predicts future developments in sustainability and technologies.

ACKNOWLEDGEMENT

REFERENCES

Leicht, R., Messner, J., & Anumba, C. (2009). A framework for using interactive workspaces for effective collaboration. Journal of Information Technology in Construction, 14, 180-203. https://consensus.app/papers/framework-using-workspaces-collaboration-leicht/e7aef06739 ad5a49a727f7e3808ae1bd/?utm_source=chatgpt

Lippman, P. C. (2013). Collaborative spaces: Thoughtfully designed learning environments help students work together more effectively. T.H.E. Journal Technological Horizons in Education, 40(2), 32. https://consensus.app/papers/spaces-thoughtfully-designed-learning-environments-help-lippman/fa672f3bd3755f038082f57fbe125817/?utm_source=chatgpt

Lopez-Chao, V. A., & Lopez-Pena, V. (2021). Purpose adequacy as a basis for sustainable building design: A post-occupancy evaluation of higher education classrooms. Sustainability. https://doi.org/10.3390/su132011181

McMahon, M., & Bhamra, T. (2012). Design beyond borders: International collaborative projects as a mechanism to integrate social sustainability into student design practice. Journal of Cleaner Production, 23, 86-95. https://doi.org/10.1016/j.jclepro.2011.10.022

Okonchenko, O., & Okonchenko, I. (2023). Exploring the urban environment in the educational design of design objects for public spaces. Demiurge: Ideas, Technologies, Perspectives of Design. https://doi.org/10.31866/2617-7951.6.2.2023.292160

Sirinterlikci, A. (2018). Development of multifunctional educational spaces. Proceedings of the ASEE Annual Conference & Exposition. https://consensus.app/papers/development-multifunctional-educational-spaces sirinterlikci/df23e28a639a53a4b7b8beb6b7b29299/?utm_source=chatgpt.

Pejabat Perpustakaan
Librarian Office

Universiti Teknologi MARA
Cawangan Perak
Kampus Seri Iskandar
32610 Bandar Baru Seri Iskandar,
Perak Darul Ridzuan, MALAYSIA
Tel: (+605) 374 2093/2453 Faks: (+605) 374 2299

UNIVERSITI
TEKNOLOGI
MARA

Surat kami : 700-KPK (PRP.UP.1/20/1)
Tarikh   : 20 Januari 2023

Prof. Madya Dr. Nur Hisham Ibrahim
Rektor
Universiti Teknologi MARA
Cawangan Perak

Tuan,

PERMOHONAN KELULUSAN MEMUAT NAIK PENERBITAN UiTM CAWANGAN PERAK MELALUI REPOSITORI INSTITUSI UiTM (IR)

Perkara di atas adalah dirujuk.

2.   Adalah dimaklumkan bahawa pihak kami ingin memohon kelulusan tuan untuk mengimbas (*digitize*) dan memuat naik semua jenis penerbitan di bawah UiTM Cawangan Perak melalui Repositori Institusi UiTM, PTAR.

3.   Tujuan permohonan ini adalah bagi membolehkan akses yang lebih meluas oleh pengguna perpustakaan terhadap semua maklumat yang terkandung di dalam penerbitan melalui laman Web PTAR UiTM Cawangan Perak.

Kelulusan daripada pihak tuan dalam perkara ini amat dihargai.

Sekian, terima kasih.

"BERKHIDMAT UNTUK NEGARA"

setuju.

27.1.2023

Saya yang menjalankan amanah,

PROF. MADYA DR. NUR HISHAM IBRAHIM
REKTOR
UNIVERSITI TEKNOLOGI MARA
CAWANGAN PERAK
KAMPUS SERI ISKANDAR

SITI BASRIYAH SHAIK BAHARUDIN
Timbalan Ketua Pustakawan

nar