



EXTENDED ABSTRACT



InViCCAD 2025
1ST INTERNATIONAL VIRTUAL COMPETITION OF CREATIVE
ARTS & INNOVATIVE DESIGN IN TEACHING & LEARNING



Design Innovation Academic Show 2025



Organized by



Fakulti
Seni Lukis & Seni Reka
Cawangan Kedah



اوسها تقوى موليا

Collaboration with



#perubahanluarbiasa
#ADpilihanpertama



**EXTENDED
ABSTRACT**

**Design
Innovation
Academic
Show 2025**





DIAS 2025 (Design Innovation Academic Show) is all about "Transcending the Boundaries of Creativity: Innovation in Art & Design for 21st Century Education." This vibrant program shines a spotlight on how creativity and innovation are reshaping modern education.

It consists of three key components. First up is the Mindareka Design Show, an exhibition that showcases students' final year projects and creative designs, giving them a chance to connect with industry professionals and the wider community. Next, we have the Northern Innovation Academic Tour (NIAT), which takes participants on an academic adventure to select institutions and innovation centers in the northern region, aimed at promoting knowledge sharing and building strong academic and professional networks.

Finally, there's the 1st International Virtual Competition of Creative Arts & Innovative Design in Teaching & Learning (InViCCAID), a global competition that recognizes outstanding practices in teaching and learning by blending art, technology, and innovative design. But DIAS 2025 is more than just a talent showcase; it's a powerful platform for empowering both students and educators, while also strengthening collaborations between universities, creative industries, and global communities. With its inclusive and interdisciplinary approach, this initiative strives to spark relevant, competitive, and impactful ideas and innovations that truly benefit society and push the future of education forward.



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Design
Innovation
Academic
Show 2025



Prof. Dr. Roshima Haji Said
Acting Rector
UiTM Kedah Branch

Rector's Message

I am delighted to extend my heartfelt congratulations to the College of Creative Arts, UiTM Kedah Branch, for bringing MINDAREKA 2024 - Unleashing Your Visual Creativity to fruition. The triumphs of past MINDAREKA editions undoubtedly fueled the organization of this year's event, making MINDAREKA 2024 a reality.

MINDAREKA 2024 - Unleashing Your Visual Creativity stands as a testament to the dedication of students at the College of Creative Arts, UiTM Kedah Branch, providing them with a platform to showcase their final art projects. Beyond serving as a space for the exploration of fresh, innovative, and entrepreneurial concepts, this exhibition is poised to connect aspiring talents with potential clients and employers.

I extend my sincere gratitude to all participants whose enthusiasm and support have contributed to the success of MINDAREKA 2024 - Unleashing Your Visual Creativity. Their unwavering belief and commitment have truly brought this event to life, marking it as a resounding triumph!





Head of Faculty Message

It is an honour to introduce DIAS 2025 – Design Innovation Academic Show, held under the theme “Transcending the Boundaries of Creativity: Innovation in Art & Design for 21st-Century Education.” This significant event reflects the faculty’s ongoing commitment to fostering a culture of innovation, critical thinking, and creative exploration among our students and academic community. As we navigate the complexities of the 21st century, it becomes increasingly clear that education must go beyond traditional boundaries to embrace multidisciplinary approaches that are both relevant and future-forward.

The three core components of DIAS 2025, Mindareka Design Show, Northern Innovation Academic Tour (NIAT), and the 1st International Virtual Competition of Creative Arts & Innovative Design in Teaching & Learning (InViCCAID) which is serve as vital platforms to highlight the convergence of design, technology, and pedagogy. These initiatives not only empower our students to showcase their talents and ideas, but also create opportunities for engagement with industry leaders, academic peers, and global collaborators. The Mindareka Design Show celebrates student creativity and innovation through compelling final year projects. NIAT fosters knowledge sharing and institutional partnerships through academic visits and exchanges, while InViCCAID offers international recognition for excellence in integrating art and design into teaching and learning.

I would like to express my deepest appreciation to the organising committee, faculty members, students, and strategic partners who have worked tirelessly to bring this programme to life. Your dedication and collaborative spirit have made DIAS 2025 a reality and a reflection of our shared vision for transformative education. It is my hope that this platform will continue to inspire meaningful dialogue, cultivate groundbreaking ideas, and spark a new wave of innovation that enriches both education and society.



Mohamat Najib Mat Noor
Head of Faculty
Faculty of Arts & Design
UiTM Kedah Branch





***Industrial
Design
(Diploma)***





MADDIKO | Multifunctional Bench

¹Muhammad Mahadhir Iffat bin Mohamad Rodzi, ²Mohd Taufik bin Zulkefli,
³Dinah binti Rakhim

Industrial Design Department,
Faculty of Art and Design,
Universiti Teknologi MARA (UiTM)
iffat.rodzi@gmail.com

ABSTRACT

The MADDIKO Bench takes inspiration from the Petronas Twin Towers in KLCC. Known for their iconic symmetry and connection via the Skybridge, the towers represent unity, balance, and modernity. This bench design reflects these qualities through twin, mirrored seating modules joined by a central shared element. The dual form invites connection between users while celebrating individuality. With a sleek, contemporary structure and subtle references to Islamic geometric design, the MADDIKO bench offers both function and cultural meaning. It blends urban elegance with shared human experience.

INTRODUCTION

The MADDIKO Bench draws its concept from the Petronas Twin Towers, Malaysia's symbol of harmony and architectural excellence. Its twin-like mirrored seats are arranged symmetrically, with a central feature that unites the forms echoing the Skybridge. The design captures the feeling of togetherness in public spaces, encouraging moments of pause, interaction, and connection. The form is modern, minimal, brutalism, and adaptable to urban, semi-outdoor, or commercial environments.

DESIGN & DEVELOPMENT

The MADDIKO Bench was developed to reflect **duality, unity, and cultural identity**. The design began with sketch iterations that explored **mirrored seating**



modules, divided by a central “bridge” that serves as a small table or connecting feature. Each seat is angled inward slightly to enhance interaction while keeping individual space.

Material choices focused on **durability and symbolism**—powder-coated steel for strength and a vertical visual cue (like the KLCC towers), paired with sustainable hardwood slats to bring warmth and comfort. The legs taper upward, echoing the towers' narrowing structure.

The design also considered urban functionality—**modularity** allows multiple units to be connected for longer seating arrangements, while **under-seat LED lighting** enhances safety and visual appeal in nighttime public use. A full-scale prototype could be developed using CNC fabrication and precision welding to maintain the integrity of the mirrored forms.

FINDINGS

Inspired by the architectural language of the Petronas Twin Towers, this project explored how urban symbols can influence the form and function of public furniture. The **KLCC towers**, known for their symmetrical twin form and unifying skybridge, provided the conceptual foundation for a mirrored seating design. Observational research in public parks and transit areas revealed a need for **shared yet personal seating** spaces that encourage social interaction while respecting personal space. Additionally, studies in cultural design elements highlighted how **brutalism and modern minimalism** can be integrated subtly into contemporary urban furniture. This supported the direction to design a bench that is both functional and meaningful in a Malaysian context.

MATERIALS AND METHODS

The bench is constructed using a mix of **powder-coated steel** for strength and **sustainably sourced wood** for warmth. The seating surfaces are CNC-cut to ensure precision in the mirrored form. The steel legs rise at a subtle taper, inspired by the vertical thrust of the KLCC towers. Between the seats lies a **shared table** that echoes the idea of a connecting bridge. Acrylic resemblance LED lighting can be added underneath for ambiance in public nighttime settings.

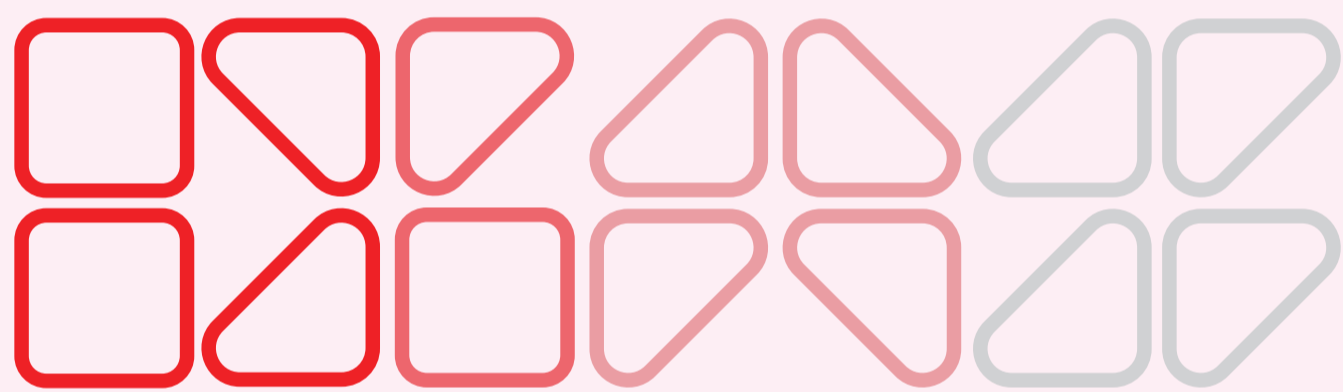


CONCLUSION & RECOMMENDATION

In conclusion, the MADDIKO Bench represents a blend of cultural pride, modern aesthetics, and functional public furniture. Inspired by the Petronas Twin Towers, its mirrored design reflects the values of balance and togetherness. With durable materials and an adaptable form, it is suitable for public parks, urban centers, and contemporary interior settings. This design is recommended for communal areas seeking a unique, story-rich seating solution that resonates with Malaysian identity and future-forward design thinking.

REFERENCES

1. Petronas Twin Towers Official Website. (2024). *Design & Architecture*. Retrieved from <https://www.petronastwintowers.com.my>
2. Norhayati, M., & Kamarul, H. (2016). *Islamic Architecture in Modern Malaysia: Patterns, Forms and Interpretation*. *Journal of Built Environment*, 13(2), 47–56.
3. Sommer, R. (1974). *Personal Space: The Behavioral Basis of Design*. Englewood Cliffs: Prentice-Hall.
4. Park, J., & Farr, D. (2020). *Urban Furniture and Public Life: Modular Bench Systems in Contemporary Design*. *Journal of Urban Design*, 25(4), 509–524.



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