



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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CONTENTS

Rector's Message
Head of College's Message

EXTENDED ABSTRACT

Diploma in Art & Design
(Graphic Design & Digital Media)

Page

1 - 174

Diploma in Art & Design
(Industrial Design)

175 - 575

Bachelor in Art & Design
(Industrial Design)

576 - 760

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
(Bachelor)**





LIDIRA | LOUNGE CHAIR

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ABSTRACT

This study explores the potential of nipa palm midribs (lidi nipah) as a sustainable material for furniture by evaluating their durability, environmental resilience, and pest resistance. Experimental tests compared chemical and natural coatings, including borax-boric, shellac, linseed oil, and turmeric, to assess flexibility, weathering, water absorption, and pest resistance. The borax-boric solution was most effective, offering superior resistance to moisture, pests, and degradation while maintaining flexibility for furniture use. In addition to material evaluation, the study examines the cultural and commercial viability of nipa palm midribs in Malaysian traditional crafts. Aesthetic design considerations, influenced by gender-based visual preferences, highlight how form and finish can impact consumer appeal. This dual approach scientific and socio-cultural positions nipa palm midrib not only as an eco-friendly material but also as a medium to revitalize traditional craftsmanship in modern markets. By combining sustainable materials with user-centered design, this research contributes to the broader discourse on eco-friendly innovation in the furniture industry. It offers a model for integrating material science with cultural design, supporting both environmental goals and heritage preservation. The findings pave the way for further exploration of sustainable resources in product development.

Keywords: Nipa palm midrib, sustainable furniture, borax-boric, traditional crafts, gender-based design, eco-materials

The **Lidira Lounge Chair** combines traditional craftsmanship with modern design, using treated Nipa palm midribs for strength and flexibility. The frame is made from plywood, while the backrest and sides of the seat are decorated with rolled woven Nipa palm midribs, adding an organic touch. These midribs are enhanced with natural coatings for improved durability, weather resistance, and pest resistance. The design features earthy tones and textures, seamlessly fitting into various interiors. Sleek steel legs provide sturdy support while maintaining the chair's natural aesthetic. This chair blends sustainability, functionality, and modern style, making it perfect for eco-conscious spaces.

MATERIALS AND METHODS



Figure 1.1: The picture of final body structure

Using a high-quality plywood foundation to create a sturdy yet flowing design for the chair. The wood is carefully shaped to form a smooth, curved structure. For added strength and support, I incorporate steel rods, which are strategically bent to offer structural integrity without a bulky appearance. These steel rods are welded into place to ensure a strong and stable frame. The side rolls, crafted from woven nipa palm, provide both ergonomic support and aesthetic appeal, enhancing the chair's tropical design. Once the frame is complete, the woven nipa palm is added to the backrest and sides for additional comfort and style. The final step involves polishing the surface, giving the chair a sleek, sophisticated finish while



highlighting the natural beauty of the materials.

RESULTS AND DISCUSSION/FINDINGS

The **Lidira Lounge Chair** draws inspiration from the natural beauty and strength of Nipa palm midribs. The rolled midribs, placed on the backrest and seat sides, add an organic touch while offering flexibility and durability. The plywood frame provides solid support, and sleek steel legs enhance the chair's modern aesthetic. The chair's design combines comfort and sustainability, offering a cozy and supportive seating solution. Natural coatings improve the midribs' resilience to weather and pests. The research into Nipa palm midribs led to a balanced design that merges functionality with eco-conscious materials, suitable for various interior styles.

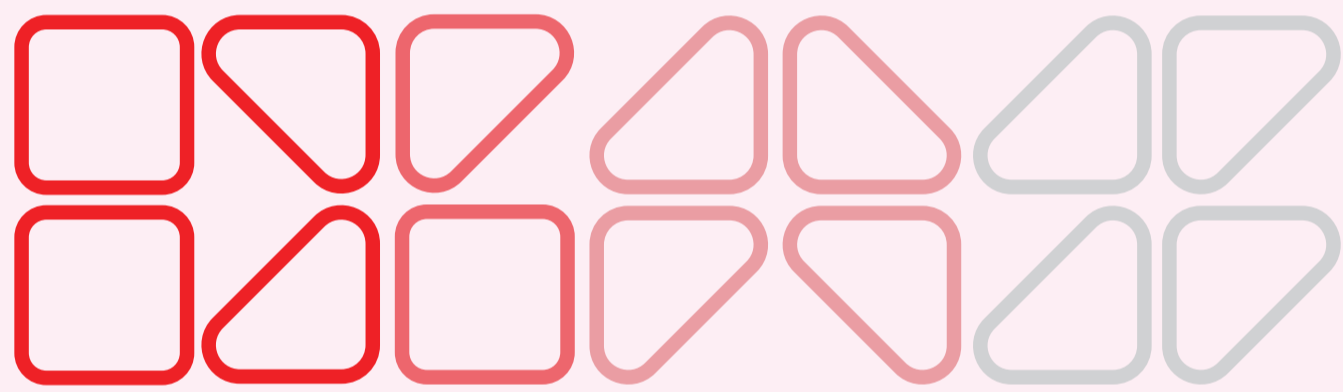
CONCLUSION & RECOMMENDATION

In conclusion, the **Lidira Lounge Chair** successfully combines sustainability, comfort, and modern style. The design utilizes durable, treated Nipa palm midribs, offering both aesthetic appeal and functionality. The plywood frame ensures sturdy support, while sleek steel legs enhance the chair's contemporary look. Ideal for eco-conscious individuals, the chair seamlessly integrates into various living spaces. It offers a practical and elegant solution for modern interiors. Future designs could explore alternative materials and further enhance its sustainability. The chair serves as a perfect example of how traditional craftsmanship can meet modern design, providing both comfort and eco-friendliness.



Figure 1.3 The picture of Environment (LIDIRA)

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