



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



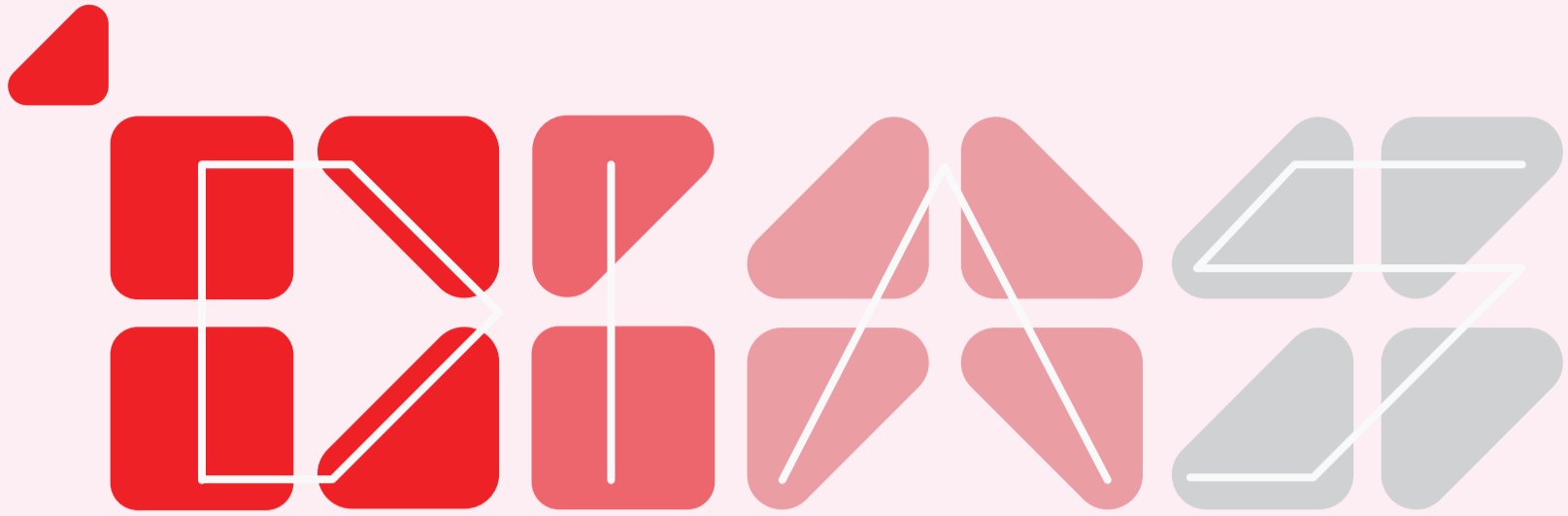
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ABSTRACT**

**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)***





DUDÖK | FLAT-PACK ACCENT CHAIR

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ABSTRACT

The DUDÖK Accent Chair is a stylish and functional chair designed for adults, especially those living in small spaces such as bedrooms. It uses a flat-pack concept, which means the chair comes in separate parts that can be packed flat, making it easy to transport, store, and assemble. Made mainly from rubberwood, the chair is strong, durable, and eco-friendly. All parts are designed to fit together without needing many tools or screws, allowing users to assemble the chair themselves with minimal effort. The chair features two side leg panels with cut-out details, a wide seat base, and a soft backrest to support comfortable sitting. Its modern shape and soft upholstery make it suitable as a decorative accent chair that also functions well for everyday use. The DUDÖK chair is perfect for adults who value simplicity, flexibility, and attractive design. It is also suitable for those who move often or want furniture that is easy to manage. DUDÖK fits well in different room styles, especially modern and Japandi-inspired interiors. As a flat-pack product, it reduces shipping volume and material waste, supporting more sustainable furniture design. This supports Sustainable Development Goal 12: Responsible Consumption and Production, by promoting efficient use of materials and reducing waste. The DUDÖK Accent Chair offers comfort, ease of use, and a clean look all in one product. It shows how flat-pack furniture can still be beautiful, practical, and personal.

Keywords: Flat-pack, Modern, Sustainable, Space-saving, Comfortable Design

INTRODUCTION

The DUDÖK Flat-Pack Accent Chair was developed for the Industrial Design Technology Project course. It is designed for adults who live in small spaces and need furniture that is easy to assemble, move, and store. Inspired by modern and Japandi styles, the chair combines simple form with function. Made from rubberwood, it uses basic joinery and flat-pack construction to reduce waste and support easy assembly. This design supports SDG 12: Responsible Consumption and Production by using materials efficiently and encouraging sustainable furniture use. The project covers the entire design process, from sketches and modelling to material selection and testing. DUDÖK shows how industrial design can offer smart, stylish, and sustainable solutions for everyday living.

MATERIALS AND METHODS



Figure 1.1 The picture of final body structure

For this project, the designer uses solid rubberwood as the primary material for the entire chair. The structure is made by cutting and shaping the rubberwood carefully to match the design, focusing on smooth lines and a clean form. Each part, including the side panels, seat base, and backrest, is measured and cut to fit together using a flat-pack system. The curved appearance is created through precise cutting and sanding. The parts are then assembled using simple connections, and a spray coat is applied to the attachment areas to give a neat and even finish while protecting the joints. Finally, the designer polishes the surface to bring out the natural texture of the rubberwood and provide the chair a smooth and modern look.

RESULTS AND DISCUSSION/FINDINGS

The outcome of the DUDÖK Accent Chair shows that the overall design works well and meets the goals of this project. The flat-pack system fits together smoothly, making assembly simple without using many tools. The rubberwood material provides strong support and gives the chair a natural and clean appearance. The curved look was successfully achieved through careful cutting and sanding. Spray paint used on the attachment points gave a smooth finish and protected the joints from wear. The chair is stable when used, comfortable to sit on, and fits well in small bedroom spaces. The final product proves that flat-pack furniture can still be stylish, strong, and easy to use, especially for adults who live in compact areas and prefer modern furniture.

CONCLUSION & RECOMMENDATION

In conclusion, the DUDÖK Accent Chair successfully combines flat-pack construction with a modern and practical design for small spaces. The use of rubberwood makes the chair strong, sustainable, and visually appealing. The flat-pack system allows easy assembly and helps reduce material waste, supporting SDG 12: Responsible Consumption and Production. Every part was carefully planned, shaped, and finished to create a clean and comfortable final product. It is recommended to continue developing furniture that uses simple materials and flat-pack systems, as it supports easier handling, lower cost, and a more sustainable lifestyle for today's users.



Figure 1.3 The picture of Environment (DUDÖK)



REFERENCES

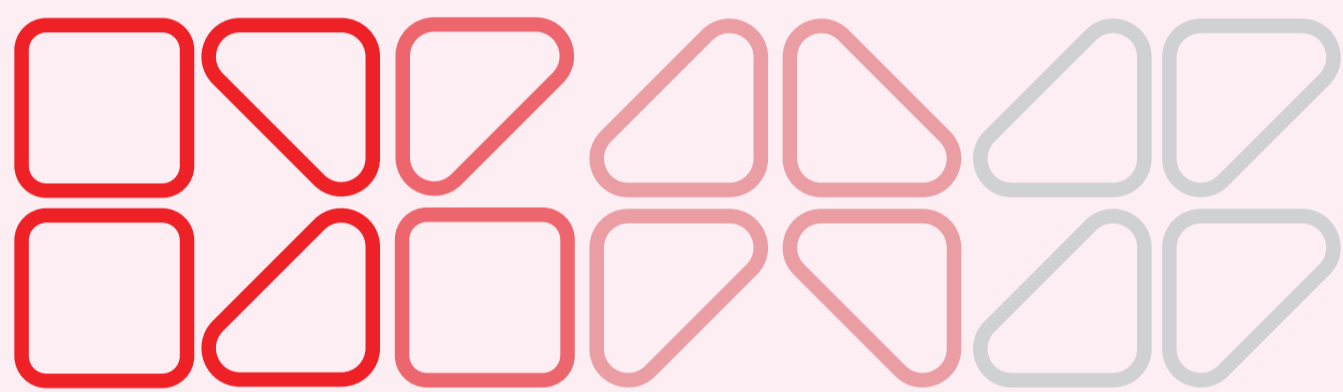
Gamage, H. K., & Hyde, K. F. (2012). A model for sustainable furniture design: Principles and practices. *Journal of Cleaner Production*, 24, 1–10. <https://doi.org/10.1016/j.jclepro.2011.11.056>

Lee, Y. H., & Kim, K. S. (2019). Sustainable materials in product design: A case study on rubberwood furniture. *Sustainability*, 11(21), 6153. <https://doi.org/10.3390/su11216153>

Manzini, E., & Vezzoli, C. (2003). A strategic design approach to develop sustainable product service systems: Examples taken from the "environmentally friendly innovation" Italian prize. *Journal of Cleaner Production*, 11(8), 851–857. [https://doi.org/10.1016/S0959-6526\(02\)00153-1](https://doi.org/10.1016/S0959-6526(02)00153-1)

Mathieux, F., Brissaud, D., & Zwolinski, P. (2007). Product ecodesign and materials: Current status and future prospects. *Journal of Cleaner Production*, 15(15–16), 1382–1393. <https://arxiv.org/abs/0711.1788>

United Nations Environment Programme, Manzini, E., & Vezzoli, C. (2003). *Product-service systems and sustainability: Opportunities for sustainable solutions*. United Nations Environment Programme.



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