



# EXTENDED ABSTRACT



**InViCCAD 2025**  
1<sup>ST</sup> 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  
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**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.



**Publisher**

Universiti Teknologi MARA Kedah Branch,  
Sungai Petani Campus,  
08400 Merbok,  
Sungai Petani,  
Kedah,  
Malaysia.

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Perpustakaan Negara Malaysia  
Cataloguing – in- Publication Data

Editor : Syahrini Shawalludin, Juaini Jamaludin, Normaziana Hassan, Fadila Mohd Yusof

Co-Editor : Shafilla Subri, Mohd Syazrul Hafizi Husin, Abu Hanifa Ab Hamid, Norarifah Ali, Zaidi Yusoff, Mohd Taufik Zulkefli, Mohd Hamidi Adha Mohd Amin, Ahmad Fazlan Ahmad Zamri, Abdullah Kula Ismail, , Suhaiza Hanim Suroya, Mohamad Hazmi Shoroin, Mohd Zamri Azizan, Mohamat Najib Mat Noor, Asrol Hasan, Azhari Md Hashim, Azmir Mamat Nawawi, Dinah Rakhim, Hasnul Azwan Azizan@ Mahdzir, Nazri Abu Bakar, Muhammad Aiman Afiq Mohd Noor, Nizar Nazrin, Nazirul Mubin Awang Besar, Qatrunnisa Shariff, Mohd Rozman Mohd Nasir, Wan Noor Faaizah Wan Omar

Design & Layout Editor: Syahrini Shawalludin, Nazirul Mubin Awang Besar, Mohd Rozman Mohd Nasir & Qatrunnisa Shariff

Language Editor : Normaziana Hassan & Juaini Jamaludin

DIAS 2025 : Extended Abstract

Perpustakaan Sultan Badlishah  
e ISBN: 9 789 672 948 780

Printed By :  
Universiti Teknologi MARA Kedah Branch,  
Sungai Petani Campus,  
08400 Merbok,  
Sungai Petani,  
Kedah,  
Malaysia.





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**D**esign  
*Innovation*  
**A**cademic  
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**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)***





## AURÉA – BIOMIMICRY | ARMCHAIR

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### ABSTRACT

Faculty of Art and De AURÉA is a biomimicry-inspired armchair that embodies poetic elegance, organic intelligence, and quiet luxury. Named after the Latin word aurum, which means "golden," AURÉA evokes the warmth of honey, the richness of nature, and the serene sophistication of high-end living. It is designed as a sculptural yet functional lounge piece; it reflects both the harmony of the natural world and the refinement of contemporary design. Inspired by the intricate structure of honeycombs, AURÉA integrates geometric hexagonal motifs into its backrest and transparent side panels, echoing nature's mastery of both form and function. Its dual-textured headrest shaped like golden honey cells gently cradles the user, while the soft, gold-patterned seat invites relaxation, reading, or simply watching the sky shift. AURÉA harmonises warm wood, resilient metal, and translucent inserts to create a piece that balances strength with serenity. The angled silhouette provides ergonomic support, while its breathable, open-frame design makes it perfectly suited for semi-outdoor environments like balconies or verandas. More than just a seat, AURÉA is a celebration of mindful living where design serves not only the body but also the spirit. It invites users to slow down, reconnect with their senses, and dwell in a space that is both grounding and uplifting. By merging biomimicry intelligence with golden warmth, AURÉA becomes a timeless expression of where form meets feeling and nature meets nurture.

**Keywords:** Honeycomb structure, Eco-conscious design, Poetic design, Nature-inspired



## INTRODUCTION AURÉA: AN ARMCHAIR INSPIRED BY BIOMIMICRY

**AURÉA** is an armchair born from the seamless intersection of biomimicry, poetic design, and quiet luxury. Developed as part of the Industrial Design Project course, this seating concept explores how nature's elegant structures, specifically the honeycomb, can inform and elevate functional furniture for personal spaces. Designed with the modern user in mind, **AURÉA** transforms the balcony into a peaceful micro-retreat where comfort, sustainability, and symbolism converge.

The chair's design is guided by nature's geometry and its underlying intelligence. Inspired by the hexagonal architecture of beehives, **AURÉA** integrates these forms into both its structure and aesthetics, creating a visual and tactile experience that feels organic and intentional. The form language is refined and fluid, avoiding excessive ornamentation and instead celebrating simplicity shaped by nature's logic.

Materially, **AURÉA** embraces contrast and harmony. Warm wood tones provide grounding, while translucent panels and golden upholstery reflect light and airiness, reminiscent of sunlight filtering through petals or leaves. The thoughtful combination of materials is not only visually engaging but also optimised for outdoor exposure on semi-sheltered balconies. Durable yet inviting, the armchair supports quiet moments of morning coffee, evening wind-downs, or simply watching the world go by.

By embedding biomimicry principles into every curve and connection, **AURÉA** represents more than just a seating solution. It's a design that listens to nature, honours it, and reinterprets it for contemporary, personal living. In doing so, it encourages a return to slowness, presence, and intentional comfort values that are increasingly essential in today's fast-paced world.

## MATERIAL & METHODS

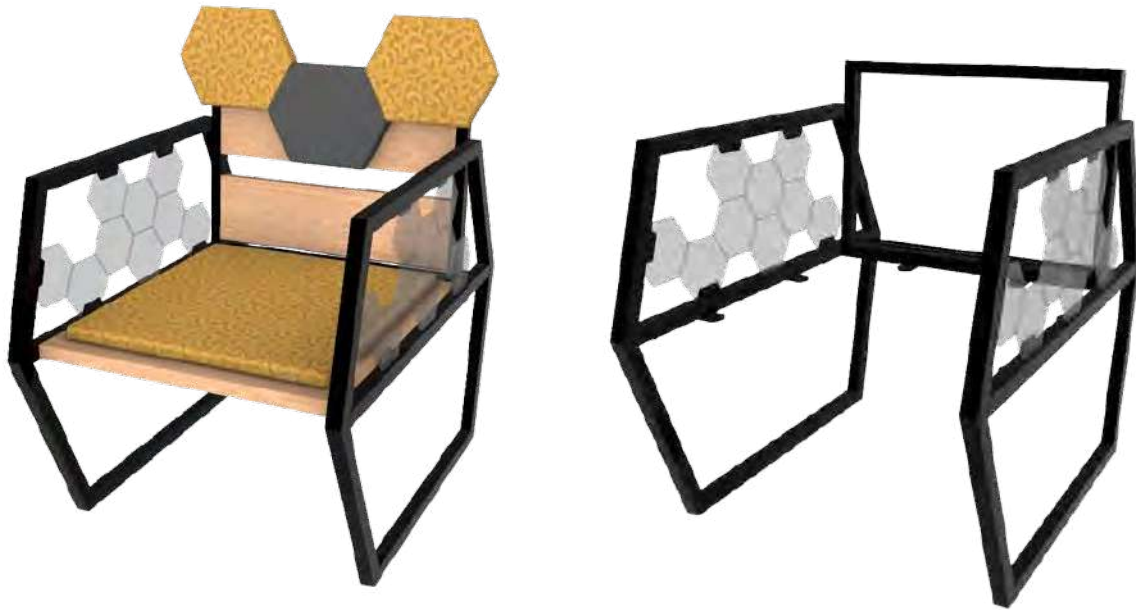


Figure 1 **AURÉA**

**AURÉA** is constructed using a combination of rubberwood, steel, fabric, and acrylic, thoughtfully selected to balance strength, comfort, and natural aesthetics. The main frame is built from black-coated mild steel, offering stability with a modern edge. Rubberwood panels form the seat and backrest, finished with a clear spray to preserve the natural grain. Golden-patterned fabric is used for the seat cushion and hexagonal headrests, while a textured dark fabric adds contrast at the centre backrest. Hexagonal acrylic panels are mounted on both sides of the armrests, echoing honeycomb structures and enhancing visual lightness. The materials are cut, joined, and finished using standard fabrication techniques, including welding, laser-cutting, upholstery wrapping, and modular assembly, ensuring durability and ease of use in semi-outdoor spaces like a balcony.

## RESULT AND DISCUSSION/FINDINGS

The outcome of the **AURÉA armchair** successfully fulfils its intended purpose as a biomimicry-inspired seating solution tailored for small, personal outdoor spaces such as balconies. The design effectively translates natural forms, particularly the honeycomb geometry, into functional and aesthetically pleasing elements. The



integration of hexagonal acrylic panels not only reinforces the theme of nature-inspired design but also introduces **a light, airy quality** that enhances the user's sense of openness in confined outdoor areas. Material-wise, the combination of **rubberwood and mild steel** offers both warmth and structural stability. The black-coated steel frame provides durability and modern appeal, while the rubberwood panels add a tactile and organic presence. The seating experience is further enhanced by the ergonomic cushion design, where the high-resilience foam and textured fabrics provide comfort during extended periods of use, such as reading or relaxing outdoors.

Aesthetic harmony is achieved through the thoughtful contrast of materials and colours, in which the golden upholstery evokes **warmth and elegance**, while the translucent acrylic and dark steel frame **create balance and visual structure**. Users responded positively to the chair's unique headrest arrangement, which provides neck support and contributes to its sculptural identity. From a functional standpoint, the chair maintains structural integrity, supports appropriate body posture, and fits comfortably within compact living areas. It also addresses sustainability through its use of **durable, low-maintenance materials** and a design intended for long-term personal use, aligning with principles of **slow living and responsible consumption**. In conclusion, **AURÉA** not only meets the goals of biomimicry and ergonomic design but also enhances emotional and spatial well-being. It encourages mindfulness and comfort in everyday routines, turning a simple balcony into a space of personal retreat and connection with nature.

## CONCLUSION & RECOMMENDATION

To wrap it up, **AURÉA** has successfully brought together comfort, structure and poetic design inspired by nature. The blend of rubberwood, steel and honeycomb-patterned acrylic gives it a sturdy yet elegant look that is perfect for a quiet balcony moment. While it already works well as a personal retreat chair, future improvements like adding modular parts or making the cushions easier to clean could enhance usability. Collecting real user feedback would also help refine the ergonomics and make **AURÉA** even more relaxing and versatile.



Figure 2 A chair on a balcony

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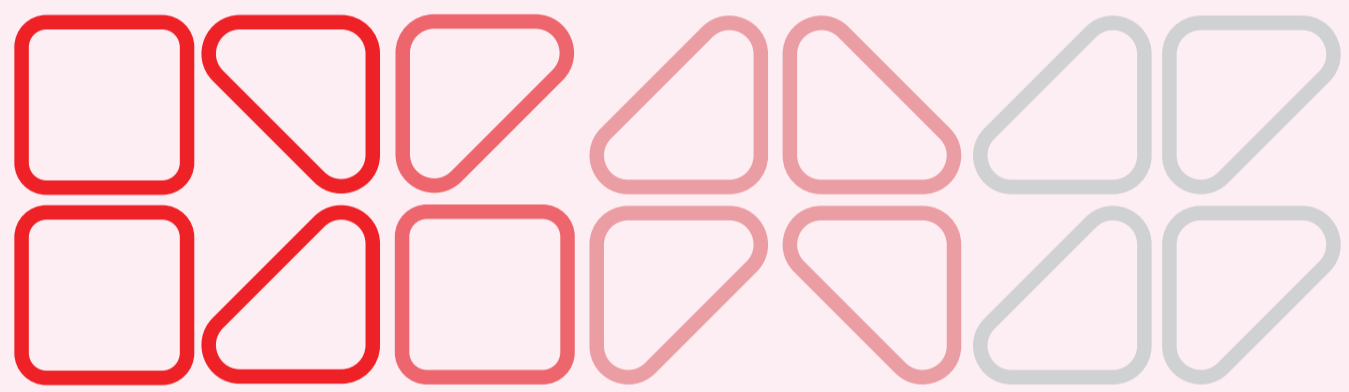
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