



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
(Bachelor)**





LINEA | WALKER

¹ Aishah Binti Ahmad Nazri, ² Hasnul Azwan Bin Azizan @ Mahbzir

Department of Industrial Design,
Faculty of Arts and Design,
Universiti Teknologi MARA (UiTM)

aishahnazri04@gmail.com

ABSTRACT

LINEA is a modern mobility walker designed to meet the physical and emotional needs of elderly users experiencing mobility challenges. Traditional walkers are often bulky and medical-looking, which can cause users to feel self-conscious or avoid using them altogether. LINEA addresses these issues by combining functional stability with a minimalist, user-friendly aesthetic. Constructed using lightweight aluminum and durable plastic components, it ensures easy handling, long-term use, and a clean, contemporary look. This design focuses on indoor usability, compact storage, and ergonomic support. LINEA features extended angled handles for a natural pushing posture, a built-in seat for resting, and a stable frame that supports movement in limited spaces. The form is intentionally stripped of clinical cues, helping users feel confident using it in daily environments like homes, cafes, or community centers. The development process involved user observation, ergonomic research, sketching, 3D CAD modeling, and mock-up prototyping. Material choice was influenced by the need for strength-to-weight efficiency, cleanability, and visual harmony. The final product balances comfort, safety, and modern design language to promote independence and dignity among elderly users. LINEA represents a shift toward more inclusive and thoughtful product design in the mobility aid category. By bridging the gap between function and form, it empowers users to move with confidence while seamlessly integrating into everyday environments.

Keywords: Mobility, Elderly, Ergonomic, Minimalist, Independence

INTRODUCTION

The LINEA walker project was developed for an industrial design course with the aim of creating a better everyday experience for elderly users. The project explores how mobility products can be reimagined beyond medical function—focusing on comfort, aesthetics, and independence. The design responds to growing aging populations and the need for more inclusive and lifestyle-friendly mobility aids.

MATERIALS AND METHODS



The picture of final body structure

LINEA was developed through a user-centered design process, beginning with research into common problems faced by elderly walker users. Pain points like difficulty in handling, embarrassment due to bulky medical aesthetics, and limited indoor usability shaped the design brief. Concepts were explored through sketching and mock-ups, leading to a compact aluminum frame with integrated plastic elements for comfort and durability. The angled handle design enhances ergonomics, while the flat seat and stable structure allow rest and easy movement. A clean, non-medical visual identity helps normalize mobility support as part of modern living.

RESULTS AND DISCUSSION/FINDINGS

Testing and feedback from users indicated that LINEA successfully meets its goals in terms of comfort, stability, and appearance. Users reported feeling more confident using LINEA compared to traditional walkers. The handle angle reduced wrist fatigue, and the seat was useful for indoor rest. The materials performed well in terms of durability and maintenance. Its compact form allowed for easy storage in small spaces. Overall, LINEA proved effective as a safe, dignified, and user-friendly mobility solution.

CONCLUSION & RECOMMENDATION

In conclusion, LINEA achieves a strong balance between function and design. It provides elderly users with a safe, modern alternative to traditional mobility aids. It is recommended to explore optional accessories, such as fold-out trays or integrated storage. Further testing with a broader user group would help fine-tune its dimensions and usability in real-life environments. LINEA stands as a meaningful contribution to inclusive design for aging populations.



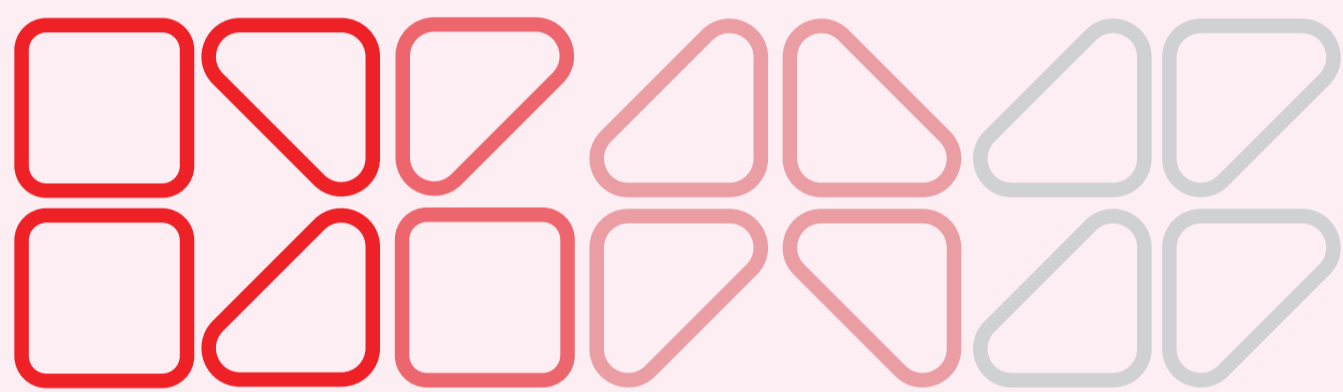
The picture of Environment (LINEA)

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