



# 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  
#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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**D**esign  
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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)***





## A HUMAN-CENTERED STUDY ON VISITOR EXPERIENCE IN MADAD RESTROOM ENVIRONMENT (ERGOSLIPP)

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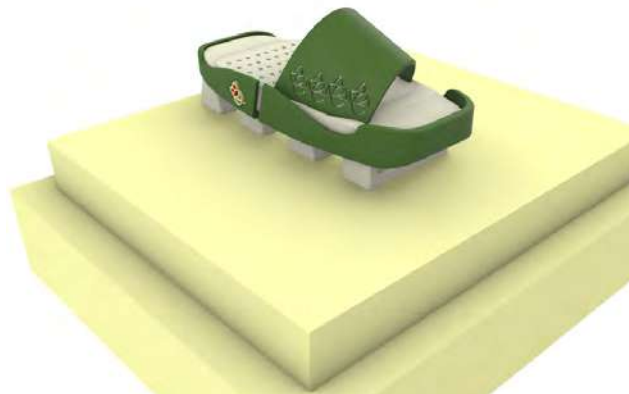
### ABSTRACT

This project introduces ErgoSlipp, a hygienic and slip-resistant toilet slip-on shoe designed specifically for visitors at the Murtadha Dakwah Centre (MADAD), Sungai Petani, Kedah. It aims to solve the issue of barefoot entry or unsuitable footwear in restroom areas, ensuring both safety and comfort in a shared environment. Visitors often face discomfort and hygiene concerns when entering toilets without proper footwear. Through the human-centered design (HCD) approach, this project emphasises the real needs of users—focusing on safety, cleanliness, and convenience. The final design of ErgoSlipp uses EVA foam and rubber, known for their lightweight, waterproof, and anti-slip properties. Its open-back structure, ergonomic shape, and universal sizing make it suitable for most users, providing ease of wearing and removing. Ventilation holes promote airflow and quick drying, while the high side guards protect the foot from splashes. User feedback from prototyping sessions confirmed the product's comfort, safety, and suitability for short-term toilet use. ErgoSlipp ensures a safer and more respectful restroom experience while maintaining the cleanliness of both the feet and the environment. This innovative footwear solution addresses a simple but important daily issue with empathy and efficiency.

**Keywords:** Toilet footwear, EVA foam, hygiene solution, anti-slip design, MADAD visitors



1.1 Observation of visitor toilet

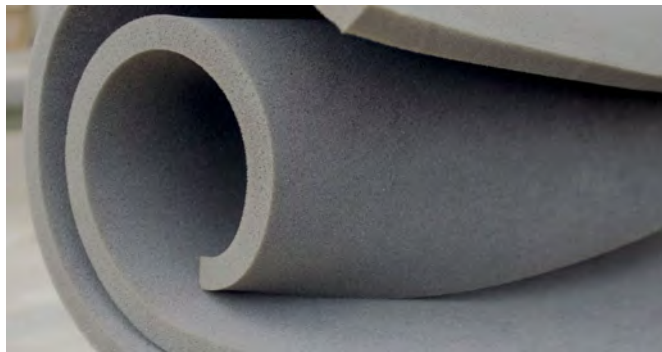


1.2 Final product: ErgoSlipp design

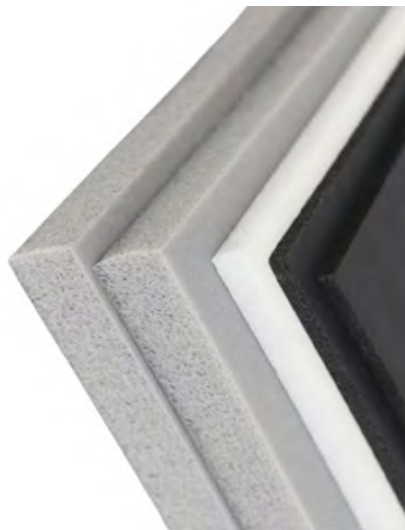
Public restrooms, especially in religious or high-traffic areas like MADAD, require a high level of cleanliness and respect. Visitors, particularly during peak times, may not bring suitable footwear for restroom use, leading to discomfort and hygiene risks. Walking barefoot or with wet soles can be unpleasant and even hazardous due to slippery tiles.

To solve this, ErgoSlipp was designed as a toilet-specific slip-on shoe that visitors can use easily and hygienically. The product is not only practical but also designed with care to respect the cultural and environmental needs of the space. Its lightweight structure, anti-slip features, and universal fit make it ideal for shared, short-duration use. The design embraces both functionality and user comfort while aligning with MADAD's values of cleanliness and hospitality.

## MATERIALS AND METHODS



*1.3 EVA Foam Base and Strap*



*1.4 Closed-cell Foam Rubber for Sole*

The development process began with site visits and observations at MADAD to understand how visitors navigate the restroom areas. A survey was conducted to gather user preferences regarding toilet footwear, hygiene expectations, and ease of use. Interviews with MADAD visitors made clear that there was a simple, low-maintenance solution that could be reused by many different people.

These insights led to the development of the ErgoSlipp, which utilises EVA foam for its upper section due to its lightweight, soft, and waterproof properties. The sole was constructed using anti-slip rubber to ensure secure footing on wet tiles. The product includes ergonomic foot curves, drainage holes for quick drying, and a supportive heel stopper. Its open design allows for quick wearing without touching the upper by hand, making it more hygienic.

The footbed is slightly elevated with textured support to ensure grip between the user's foot and the shoe, even when wet. The product also features a symbolic engraving on the side to connect it aesthetically with MADAD's identity.

## RESULTS AND DISCUSSION/FINDINGS



1.6 User trying on ErgoSlipp in prototype testing



Prototypes were tested by visitors at MADAD to assess comfort, usability, and hygiene levels. The feedback was highly encouraging. Users appreciated the easy slip-on design, the comfort of the foam material, and the firm grip provided by the rubber outsole. Many noted the enhanced feeling of cleanliness compared to going barefoot or using personal slippers.

The material combination of EVA foam and rubber proved ideal for restroom use both materials resisted water absorption, dried quickly, and provided thermal insulation on cold tiles. Users reported feeling more confident in moving around toilet spaces, especially those with wet surfaces, thanks to the anti-slip sole.

The design also supported rapid cleaning and storage after use, making it practical for high-use environments like MADAD.

## CONCLUSION AND RECOMMENDATION



*1.7 Final installation of ErgoSlipp storage unit in MADAD toilet area*

ErgoSlipp stands out as a thoughtful and highly functional product, solving a real-world problem with simplicity and care. By incorporating lightweight EVA foam and anti-slip rubber, it offers safety, hygiene, and comfort to visitors in MADAD's



restroom areas. Its design encourages respectful use, fast transitions, and ease of storage and cleaning.

As a recommendation, future enhancements could include multiple size ranges, colour-coded variants for gender or area separation, and modular racks for drying and organising pairs. With its clean aesthetic and strong functionality, ErgoSlipp helps elevate public restroom standards while supporting the comfort and dignity of every visitor.

## REFERENCES

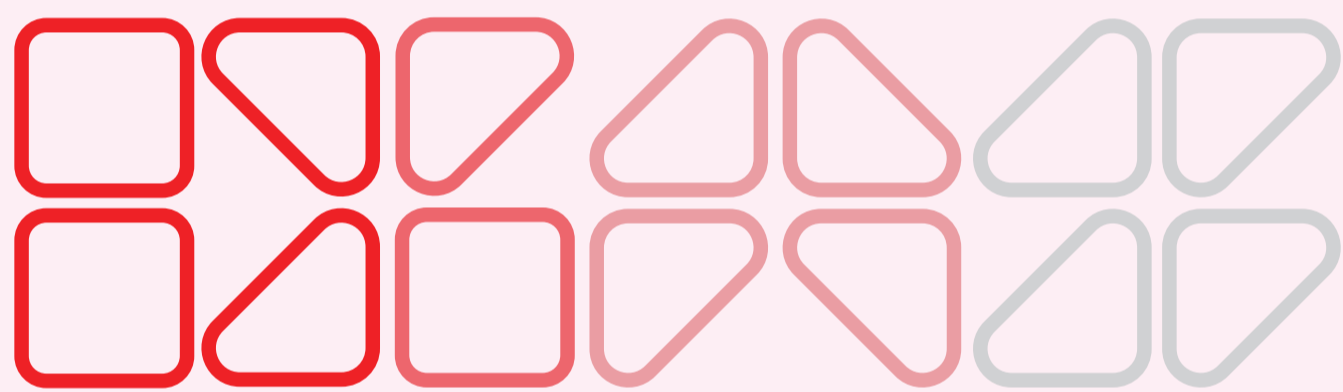
Aiello, A. E., Coulborn, R. M., Perez, V., & Larson, E. L. (2008). Effect of hand hygiene on infectious disease risk in the community setting: A meta-analysis. *American Journal of Public Health*, 98(8), 1372–1381. <https://doi.org/10.2105/AJPH.2007.124610>

Curtis, V., & Cairncross, S. (2003). Effect of washing hands with soap on diarrhoea risk in the community: A systematic review. *The Lancet Infectious Diseases*, 3(5), 275–281. [https://doi.org/10.1016/S1473-3099\(03\)00606-6](https://doi.org/10.1016/S1473-3099(03)00606-6)

Malkin, J. (2008). *A visual reference for evidence-based design*. The Center for Health Design.

Salvendy, G. (2012). *Handbook of human factors and ergonomics* (4th ed.). Wiley.

Ulrich, K. T., & Eppinger, S. D. (2015). *Product design and development* (6th ed.). McGraw-Hill Education.



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