



# 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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**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)***





## STASH | THE WATERPROOF CONTAINERS

<sup>1</sup>Nerenaellyneyana Binti Azhar, <sup>2</sup>Mohd Hamidi Adha bin Mohd Amin,

<sup>3</sup>Mohd Rozman bin Mohd Nasir

Industrial Design Department,  
Faculty of Art and Design,  
Universiti Teknologi MARA (UiTM)  
[nerenaazhar@gmail.com](mailto:nerenaazhar@gmail.com)

### ABSTRACT

This project introduces Stash, a minimalist, waterproof bag designed for securing valuables like jewelry, birth certificates, academic certificates, cash, and essential medications during emergencies, especially floods. Made from durable, lightweight, and recyclable materials such as TPU and coated nylon, it aims to prevent water damage and loss, enhancing peace of mind for flood victims. Its intuitive design ensures quick and easy access to crucial documents and items, simplifying relief applications and identity verification at evacuation centers. This solution promotes organized and secure storage habits, significantly aiding individuals in crisis scenarios.

**Keywords:** Portable, Waterproof, Valuables, Emergency, Minimalist, Organization

### INTRODUCTION

This project addresses a critical challenge faced by flood victims in Malaysia which the safeguarding of essential personal valuables and documents during emergencies. Recurring flood disasters, particularly from November to March, lead to the loss and damage of crucial items like identification cards, birth certificates, cash, and medications, causing significant distress and complicating recovery efforts. This product aims to provide a reliable, portable, and waterproof solution for flood victims to securely store their belongings, ensuring peace of mind and aiding in smoother post-disaster processes such as registration and aid applications at evacuation centers. By focusing on durability, water protection, and easy access, this design seeks to improve personal asset management in crisis situations.



Figure 1 **STASH**

## **MATERIALS AND METHODS**

Developing this waterproof storage solution was driven by the urgent need for effective protection of valuables during flood emergencies. The goal was to create a container that prevents water damage, allows for easy transport, and keeps essential items organized. Initial design considerations identified problems with existing solutions, such as dry bags potentially being damaged by sharp objects inside, tightly closed boxes being prone to cracking if dropped, and waterproof document holders only fitting small documents. This led to design objectives prioritizing robust water protection, durability, and a compact, organized structure suitable for various essential items.

Material selection was vital for its performance in flood-affected areas. TPU (Thermoplastic Polyurethane) was chosen for its excellent waterproof and stain-resistant properties, flexibility, and tear resistance, making it ideal for protecting



contents from moisture and physical damage. Its eco-friendly and recyclable nature, along with being lightweight and transparent, further supported its selection. Coated Nylon was also considered for its water-resistant/waterproof qualities, durability, and lightweight characteristics. Additionally, Recycled Plastic was explored for non-structural parts due to its low cost and sustainability. The structure is designed to be highly portable and resistant to water, enabling rapid deployment and easy transport in dynamic crisis scenarios

## RESULTS AND DISCUSSION/FINDINGS

Research and development for this waterproof minimalist storage bag revealed significant challenges faced by flood victims in safeguarding their valuables during crises, confirming the potential of the proposed solution. Flood-induced displacements in Malaysia often result in the loss or damage of crucial personal items and documents, leading to immense distress and complicating recovery efforts. Victims frequently lose important documents like identification cards, birth certificates, academic certificates, cash, and essential medications due to water damage or misplacement during evacuations.

The waterproof minimalist storage bag is designed to prevent water damage to valuables, including phones, cash, prescriptions, and crucial documents. It aims to help flood victims organize and securely store their belongings to avoid loss in an emergency. This product serves as a vital tool for preventing moisture and harm to everyday medications, keeping small devices, cash, and jewelry in a secure location, and enabling victims to bring necessary goods during evacuation. Furthermore, it gives victims peace of mind during a crisis by simplifying access to crucial documents when submitting aid applications. The bag is made for rapid deployment and easy handling in emergency shelters without special tools. Its lightweight and portable nature is achieved with durable, waterproof materials like TPU (Thermoplastic Polyurethane) and coated nylon. Recycled plastic is also considered for non-structural parts, supporting sustainability. The sealed design ensures contents remain dry and clean, protecting them from moisture and grime, even in damp and muddy conditions at evacuation centers. Its robust construction makes it resistant to tearing and pressure, guarding against loss or damage during evacuation.



## CONCLUSION & RECOMMENDATION

In conclusion, this waterproof minimalist storage bag is an essential solution for safeguarding personal valuables and critical documents during flood emergencies. It effectively addresses problems like the loss and water damage of items such as identification cards, birth certificates, cash, and medications, which currently cause significant distress and complicate recovery efforts for flood victims. Its portable, lightweight design, utilizing waterproof and tear-resistant materials like TPU and coated nylon, ensures rapid deployment and improves peace of mind by securing essential items. This product reduces the burden on individuals by simplifying access to crucial documents for aid applications and identity verification.

For future development, it is recommended to prototype and test the bag in simulated emergency scenarios to validate its performance. User feedback from those affected by floods and relief workers should be incorporated to refine the design, particularly regarding internal organization and ease of access. Further material optimization, including exploring more robust recycled plastic applications for non-structural components, is crucial for strength, durability, and sustainability. A scalable production plan is needed for quick manufacturing, and collaboration with disaster relief organizations is essential for integration into existing response systems. This waterproof minimalist storage bag represents a vital step towards enhancing personal safety and preparedness in temporary shelters.

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# DMS



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