



اوپو رسيوني تيكنولوگي مارا
UNIVERSITI
TEKNOLOGI
MARA

EXTENDED ABSTRACT

InViCCAID 2025
1ST INTERNATIONAL VIRTUAL COMPETITION OF CREATIVE
ARTS & INNOVATIVE DESIGN IN TEACHING & LEARNING



Design Innovation Academic Show 2025

Organized by

Faculty of
Art &
Design



اوپو رسيوني تيكنولوگي مارا
UNIVERSITI
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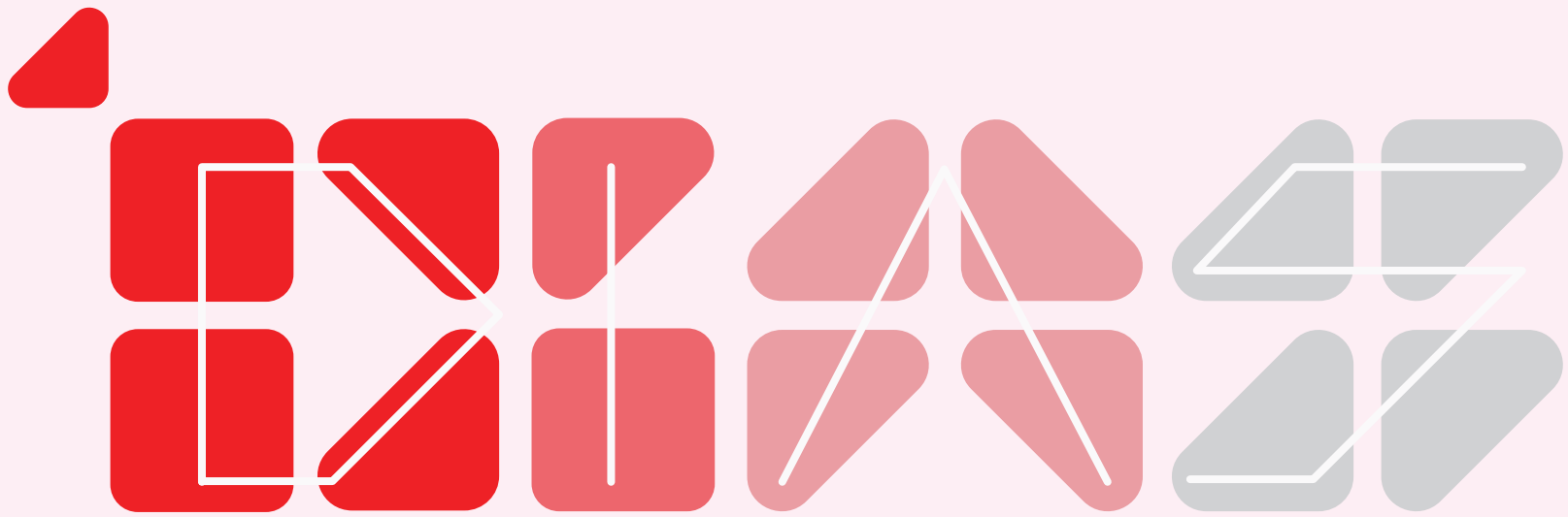
#perubahanluarbiasa
#ADpilihanpertama



***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
(Diploma)***





H2Hold | WATER STORAGE

¹ Azfa Rifah Binti Rozaini, ² Mohd Hamidi Adha Bin Amin,

³ Mohd Rozman Bin Mohd Nasir

Industrial Design Department,

Faculty of Art and Design,

Universiti Teknologi MARA (UiTM)

rifahazfa@gmail.com

ABSTRACT

H2hold is a water storage product designed to help communities affected by floods. Made from strong, recycled plastic, it is durable, lightweight, and easy to carry, making it ideal for quick distribution during emergencies. When floods happen, many people lose access to clean water. H2hold helps solve this by providing safe water storage with ergonomic handles and a stackable design, which makes it easier to transport and store during rescue operations. Using recycled plastic also makes H2hold environmentally friendly while keeping it strong and long-lasting. The design process included studying disaster relief logistics, how people behave in crisis situations, and how the material performs in harsh conditions. Through testing and prototyping, the product was improved to ensure it meets the needs of fast deployment, hygiene, and easy distribution by NGOs and government agencies. H2hold shows how industrial design can support humanitarian work by combining practicality, sustainability, and mass production readiness. It sets a new standard for emergency water storage by focusing on user needs and environmentally responsible materials, creating a product that is both useful and ethical in disaster management. Overall, H2hold plays an important role in making sure clean water is available to people during flood crises around the world.

Keywords: portable, Water storage, easy to carry, hygiene, flood crisis

INTRODUCTION

H2hold is a portable water storage solution designed specifically for flood victims who often find it tough to get clean water. Traditional water storage options tend to be heavy, cumbersome, or just too small to meet the needs of families during emergencies. H2hold steps in to change that with a lightweight, foldable, and user-friendly. The focus is on portability, featuring wheels for easy transport, and it's made from strong, recycled plastic to ensure it's both durable and eco-friendly. Its modular design means you can connect multiple units together, boosting your water storage capacity based on what you need. Plus, it's designed to be easy to refill and clean, which is crucial for maintaining hygiene in tough flood situations. This product is aimed at flood victims of all ages, from young adults to seniors, who need a straightforward and practical way to access water daily. The target market includes families in flood-affected areas, whether they're in emergency shelters or their own homes, with support from relief agencies, NGOs, and government programs. The design embraces a minimalist and modern aesthetic, ensuring it's clean, functional, and family-friendly, fitting right into temporary shelters or home settings. In short, H2hold tackles the pressing challenges of water storage during humanitarian crises by blending thoughtful design, user-focused functionality, and sustainable materials.



Figure 1 H2hold



MATERIALS AND METHODS

Developing H2hold began with recognising the critical need for safe and reliable water storage solutions for people affected by floods. The aim was to create a portable, lightweight, and expandable water storage system that is easy to carry, refill, and store during emergencies. The design process began by identifying problems such as heavy and hard-to-move water containers, and limited storage capacity.

Material selection was crucial for ensuring durability and safety in crisis environments. Strong, recycled HDPE plastic was chosen because it is lightweight, impact-resistant, waterproof, and environmentally friendly. It also supports sustainability goals by reusing waste materials. The design includes ergonomic handles for comfortable carrying, wheels for effortless movement, and modular connections to increase storage capacity when necessary.

RESULTS AND DISCUSSION/FINDINGS

H2hold was designed with inspiration from simple, clean, and functional shapes, making it perfect for emergency situations. Its sleek, minimalist design not only looks good but also makes it easy to carry and clean. Throughout the development process, I observed how people manage water during floods, noting that many existing containers were either too heavy, unstable, or difficult to handle. H2hold addresses these issues with its ergonomic handles and wheels, allowing anyone, including the elderly, to move it effortlessly, even when it's full.

Testing revealed that the robust recycled HDPE plastic is not only durable and lightweight but also safe for storing water. The modular stacking feature worked exceptionally well, enabling multiple units to connect and expand storage capacity when necessary. Users appreciated how comfortable it was to grip and how easy it was to refill or clean. Overall, the findings indicate that H2hold is a practical solution for real flood scenarios. It's strong, user-friendly, environmentally conscious, and offers a dependable way for flood victims to safely store clean water.

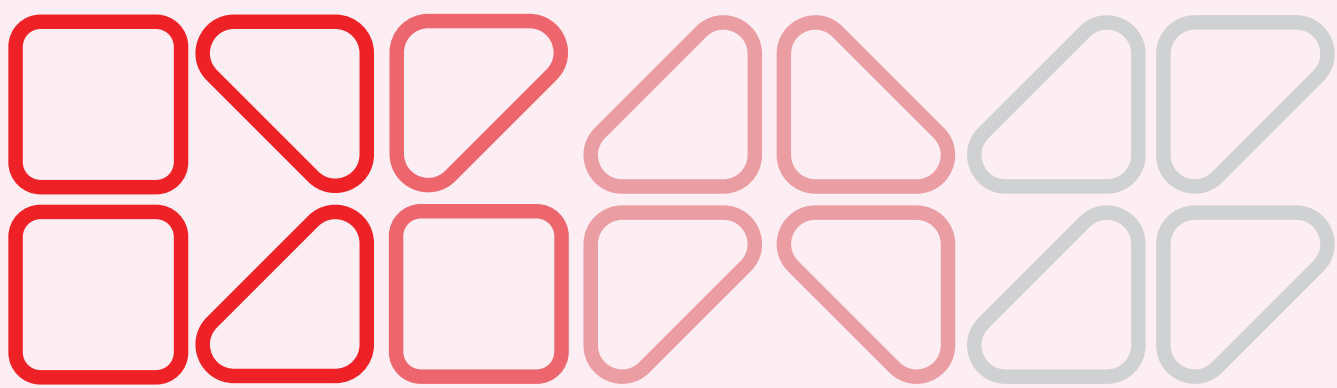


CONCLUSION & RECOMMENDATION

In conclusion, H2hold successfully combines durability, practicality, and sustainability in one product. Its strong, recycled plastic structure makes it safe and long-lasting, while its lightweight and modular design makes it easy to carry, refill, and expand. The wheels and ergonomic handles add comfort and ease of use for all users, including the elderly. Overall, H2hold is a reliable and essential water storage solution for flood emergencies, supporting both humanitarian needs and environmental responsibility.

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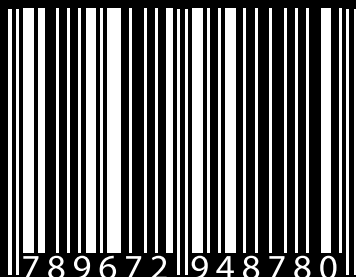
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