



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.



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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Design
Innovation
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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)***





PAWKET: IMPROVING THE CAT GROOMING APRON AS A USER-CENTERED SOLUTION FOR ENHANCED EFFICIENCY AND HYGIENE AT CAT HOUSE MADAD

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ABSTRACT

The **PAWKET** grooming apron is a multifunctional design for staff at MADAD Cat Park, specifically for use during cat grooming sessions. The apron addresses common grooming challenges such as cat movement, tool accessibility, and user comfort. The PAWKET incorporates built-in pocket compartments that allow the groomer to safely place the cat inside the apron. The pockets include leg holes, an elastic neckline, and a zipper for secure access, helping to keep the cat calm and under control throughout grooming. Designed with practicality in mind, the PAWKET features multiple compartments for grooming tools such as nail clippers, flea combs, brushes, and conditioners. The neck strap is adjustable with Velcro tape in three positions, and the back strap uses a quick-release buckle for easy donning. The design is constructed using canvas or waterproof materials, offering durability and ease of cleaning. Rounded corners and secure stitching ensure the safety of both pets and users. Through usability testing and ergonomic evaluation, the PAWKET was developed as a solution that reduces handling stress and increases grooming efficiency. The intuitive design makes it suitable for both professional and casual grooming environments. PAWKET is not just an apron; it is a protective system that supports the sitter's workflow and the cat's comfort.

Keywords: Pet Apron, Grooming, Pocket Feature, Functional Design, Cat Safety

INTRODUCTION

The **PAWKET** apron was created to meet the specific grooming needs of staff at MADAD Cat Park. Traditional grooming aprons often lack functional features to protect active pets or organise grooming tools. This project addresses this gap by combining pet-safe ergonomics, storage design, and user-friendly fasteners into one cohesive garment.

From an industrial design perspective, this project explores how garment-based tools can be enhanced for job tasks involving animals. The PAWKET design encourages hands-free grooming, reduces pet movement, and minimises grooming time. It also considers hygiene, durability, and modularity, which are important factors in an animal care environment.

MATERIALS AND METHODS



Figure 1.1 The picture of final body structure

The **PAWKET** apron is made from denim, chosen for its durability, flexibility, and ease of cleaning. The main innovation lies in the large front pocket, which includes four leg holes to hold the cat securely, a zip opening to place the cat inside, and an



elastic neck hole to ensure a gentle restraint without suffocation. Slots on the sides allow staff to insert and access grooming tools such as brushes, trimmers, and scissors. The neck strap is adjustable using a Velcro tape with three settings, while the back strap uses a buckle for quick removal.

RESULTS AND DISCUSSION/FINDINGS

The **PAWKET** improved control over animals during grooming procedures, especially for nail trimming and brushing. The pocket enclosure calmed cats by restricting movement without causing discomfort. The tool compartments were easily accessible and reduced time spent searching for items during grooming. Compared to traditional aprons, PAWKET provided a more organised, ergonomic, and hygienic solution. The adjustable Velcro and buckle system allowed a secure fit for various body sizes, and the apron could be quickly worn or removed as needed. The integrated design also reduced the need for additional assistants, making solo grooming more practical.

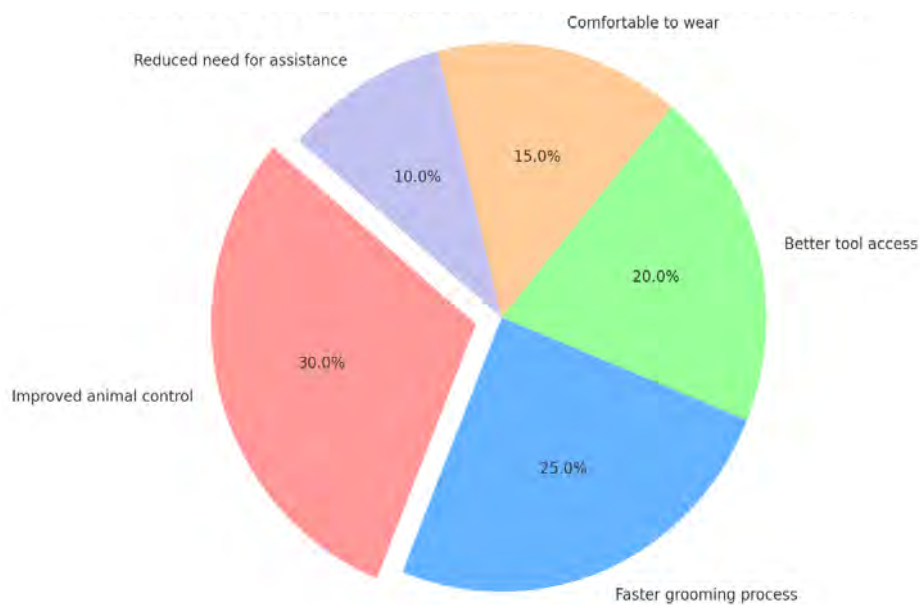


Figure 1.2 Feedback from grooming staff on the PAWKET about functionality.



The results, presented in the pie chart above, show that the apron significantly improved various aspects of the grooming process. The highest percentage of respondents (30%) reported that the PAWKET helped improve pet control, especially during nail trimming and brushing. This was largely due to the integrated pocket that gently restrains the cat's movement. Another 25% of users observed that the apron led to a faster grooming process, as it minimised the need to repeatedly adjust or reposition the pet. Additionally, 20% praised the better tool accessibility made possible by the multiple built-in slots for grooming items such as brushes and conditioners. Approximately 15% of respondents found the apron comfortable to wear, thanks to the adjustable Velcro neck strap and buckle neck strap. Finally, 10% of groomers highlighted that the PAWKET reduced the need for additional assistance, allowing one to manage grooming more efficiently. Overall, the results confirm the design intent to improve workflow, safety, and comfort in the pet grooming environment. The combination of practical storage, animal restraint, and ergonomic wearability positions PAWKET as a meaningful innovation in grooming apparel.

CONCLUSION & RECOMMENDATION

The **PAWKET** grooming apron has proven to be a functional and innovative solution for a professional grooming environment for Taman Kucing MADAD staff. It effectively addresses the need for secure animal restraint, simple tool access, and user comfort. Designed with both pets and staff in mind, the PAWKET helps minimise stress, save time, and support hygienic practices. Future proposals include producing the PAWKET in a variety of sizes to accommodate different pet sizes, incorporating an anti-scratch fabric layer, and adding a removable compartment for tool sterilisation. Further research with veterinary staff and trainers could expand the functionality of the PAWKET beyond the grooming centre.

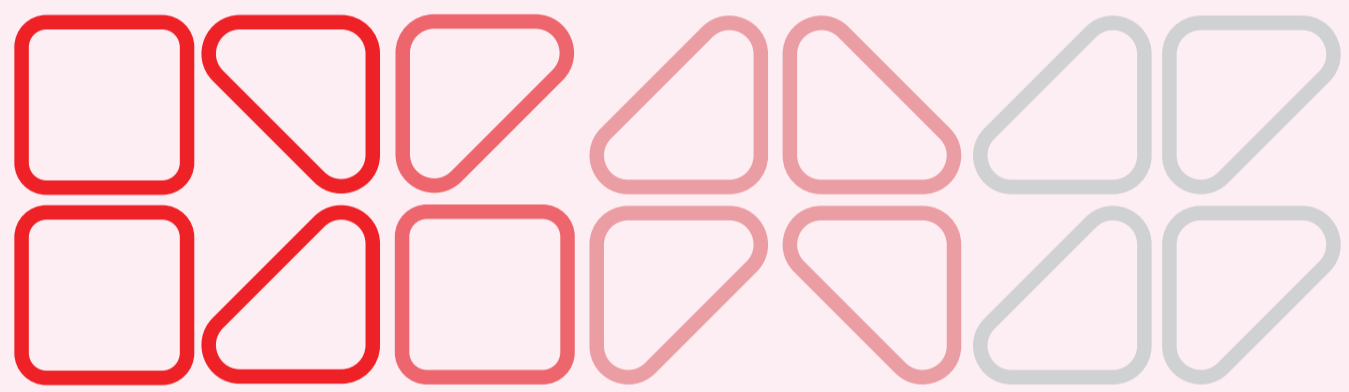


Figure 1.3 The picture of Environment (PAWKET)

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