



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.

Copyright 2025 Faculty of Arts and Design,
Universiti Teknologi MARA Kedah Branch.

Copyright © is held by the owners/authors. The extended abstract is published in all rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form of any means electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of the publisher or author.

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.





CONTENTS

Rector's Message
Head of College's Message

EXTENDED ABSTRACT

Diploma in Art & Design
(Graphic Design & Digital Media)

Page

1 - 174

Diploma in Art & Design
(Industrial Design)

175 - 575

Bachelor in Art & Design
(Industrial Design)

576 - 760

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)***





LUMINEST | SMART ECO-FRIENDLY PAPASAN CHAIR FOR KIDS

Puteri Nur Dini Zulaikha Bt Mohd Rezuhan, Abu Hanifa Bin Ab Hamid

Industrial Design Department,
Faculty of Art and Design,
Universiti Teknologi MARA (UiTM)
puterinurdinizulaikha16@gmail.com

ABSTRACT

The Luminest Smart Eco-Friendly Papasan Chair for Kids is a modern innovation designed for children's comfort, safety, and environmental awareness. Inspired by the iconic Papasan form, the chair has been redesigned with ergonomic curves suited for children's posture and constructed using organic fabrics, recycled foam, and a lightweight metal frame. One of its key features is a smart lighting system, where users can plug in a detachable side lamp to create a cosy space for reading or relaxation. This concept turns the chair into more than just a seating solution; it becomes a creative and calming micro-environment. Developed for a graphic design course, this project combines print and digital design elements, including an animatic logo, promotional TVC, interactive website, and exhibition setup. Design research focused on sustainable materials, user-friendly interaction, and child ergonomics. The outcome strikes a balance between style and functionality while promoting eco-conscious living habits. During user testing, the chair was praised for its intuitive interaction, aesthetic appeal, and child-centred experience. Luminest aims to foster imaginative play and self-directed learning in a space that aligns with modern eco-design principles. The process highlighted the importance of emotional connection and comfort in product development, especially for young users. Overall, Luminest represents a successful blend of environmental responsibility, user-focused innovation, and contemporary design.

Keywords: Eco-Friendly, Ergonomic, Smart Design, Children's Furniture, Interactive Product

INTRODUCTION

The Luminest Papasan Chair is designed to promote eco-conscious comfort and efficient use of space for children. Drawing inspiration from nature and modern technology, the chair strikes a thoughtful balance between soft ergonomics and functional interactivity. It features a rounded, child-friendly form and a detachable side lamp that children can plug in themselves, encouraging independence and playful learning. The chair supports various developmental activities such as reading, imaginative play, and focused rest, making it more than just a seating solution. Its soft pastel colours and semi-spherical shape help create a calm and inviting environment, ideal for bedrooms, study corners, or creative spaces. With its sustainable materials and intuitive design, the Luminest chair serves as a personal and functional micro-space tailored to the needs of modern children while promoting responsible, eco-friendly living from a young age.

MATERIALS AND METHODS



Figure 1.1 The picture of final body structure

For the Luminest Smart Eco-Friendly Papasan Chair for Kids, the material selection was made with a focus on comfort, safety, and sustainability for children's use. The main frame of the chair is made of mild steel that is formed into a semi-circular structure strong enough to support the weight of the body and maintain stability. The seat and backrest are filled with high-density foam that provides soft and comfortable support for long periods of sitting. The cushions are wrapped in a soft-textured organic fabric, friendly to children's skin, and come in pastel colours such as light blue and soft



green, suitable for the taste and atmosphere of a child's room. To add interactive functionality, the chair is equipped with a tube-shaped LED side light that can be removed and reinserted into the built-in socket on the side of the chair. This feature helps to build curiosity and a sense of independence among young users. For the design development process, the team began by observing how children sit, read, and interact with their personal space. Visual studies such as mood boards, concept sketches, and ergonomic studies were used as references. Next, initial mock-ups were built using foam board and 3D modelling to test form, function, and usability. This method ensured that every aspect of the design met the physical and emotional needs of children while maintaining a sustainable and user-friendly approach.

RESULTS AND DISCUSSION/FINDINGS

User testing of the Luminest Papasan Chair showed positive feedback from children and parents. The self-popping side light feature was a favourite, providing a fun and practical interactive experience. The semi-circular design with soft cushions provides good comfort, making it ideal for reading and lounging. Users also liked the soothing, child-friendly pastel colours. Parents appreciated the eco-friendly materials and the ergonomic design that is safe and supports the child's posture. Suggestions for improvement included adding color options and additional smart functions such as automatic lighting. Overall, the chair successfully creates a comfortable and beneficial personal space for children.

CONCLUSION & RECOMMENDATION

The Luminest Papasan Chair proves that a child-friendly and functional design can bring comfort and joy to daily life. With its ergonomic shape, soft cushioning, and interactive side lamp, the chair supports activities like reading, play, and rest. Its pastel colours and modern form make it easy to fit into various spaces, while the smart features encourage independence and engagement. For future improvements, more color options and smart features such as automatic lighting can be added. Overall, Luminest is more than just a chair—it's a personal space that nurtures creativity, comfort, and learning.



Figure 1.3 The picture of Environment (LUMINEST)

REFERENCES

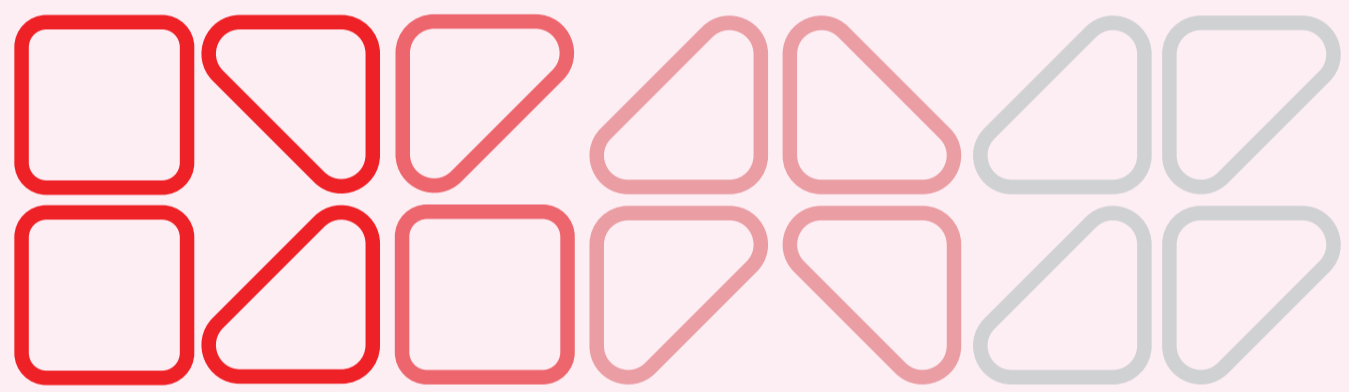
Bhamra, T., & Lofthouse, V. (2007). *Design for sustainability: A practical approach*. Gower Publishing.

Norman, D. A. (2013). *The design of everyday things* (Revised and expanded ed.). Basic Books.

Papanek, V. (1985). *Design for the real world: Human ecology and social change*. Thames & Hudson.

Sanders, E. B. N., & Stappers, P. J. (2008). Co-creation and the new landscapes of design. *CoDesign*, 4(1), 5–18. <https://doi.org/10.1080/15710880701875068>

Van der Linden, S., Maibach, E., & Leiserowitz, A. (2015). Improving public engagement with climate change: Five “best practice” insights from psychological science. *Perspectives on Psychological Science*, 10(6), 758–763. <https://doi.org/10.1177/1745691615598516>



DMS



اَوْنِيُوْ تِيْكْنُوْلُوْجِي مَرَا
UNIVERSITI
TEKNOLOGI
MARA



9 789672 948780

