

MELAKA  
INTERNATIONAL  
INTELLECTUAL EXPOSITION

# MIIEX'24

12 JUNE '24

Dewan Taming Sari,  
Universiti Teknologi MARA Caw. Melaka,  
Kampus Alor Gajah, Melaka

*"Empowerment of Special  
Needs through Invention  
& Innovation"*

**EXTENDED  
ABSTRACT**

# MiiEX'2024

**MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024**

**“EMPOWERMENT OF SPECIAL NEEDS THROUGH INVENTION AND  
INNOVATION”**

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UiTM Cawangan Melaka

KM26 Jalan Lendu,

78000 Alor Gajah

Melaka Bandaraya Bersejarah

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**MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024**

**“EMPOWERMENT OF SPECIAL NEEDS THROUGH INVENTION AND  
INNOVATION”**

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## **FOREWORD BY THE RECTOR OF UiTM CAWANGAN MELAKA**



**Professor Ts. Dr. Mohd Rasdi bin Zaidi**

**Rector, Universiti Teknologi MARA (UiTM)**

**Cawangan Melaka**

Welcome to the Melaka International Intellectual Exposition 2024 (MIIEX '24). It is an honour for me, on behalf of UiTM Cawangan Melaka, to thank all of you for joining MIIEX '24. We are proud to inform you that this is the 13th consecutive year that UiTM Cawangan Melaka is organizing this exposition. Since 2009, UiTM Cawangan Melaka has successfully hosted this innovation exposition. Not only have we succeeded in organizing the exposition, but we have also successfully embarked on commercialized products.

2024 is a special year where MIIEX 2024 emphasizes the development of special needs. As we know, special needs indicate a limitation in a person's ability to engage in and benefit from various aspects, such as daily activities and education. Hence, with the theme "Empowering Special Needs Through Invention and Innovation," it is a platform for industries, professionals, academicians, students, and communities to share their innovative ideas and products to increase accessibility for those with special needs.

The successful implementation of MIIEX '24 is our joint success. This event was supported by the Melaka state government through YB Datuk Fairul Nizam bin Roslan, the EXCO of Science, Technology, Innovation, and Digital Communication. I also want to express my

gratitude to Universitas Negeri Padang, Indonesia, Universitas Muhammadiyah, Makassar, Indonesia, the International Association of Economic and Businesses (IAEB), Universiti Sains Islam Malaysia, Ibnu Umami Maktum Research Center (UMMI), USIM, and The Southeast Asia Minister of Education Organization Regional Centre for Special Educational Needs (SEAMEO SEN) as our co-collaborators for MIIEX 2024.

The collaboration from various parties in MIIEX '24 is a platform that will improve cooperation and interweaving among industries, professionals, academicians, students, and communities in shaping their potential in developing innovation products. This exposition also serves as a platform to cultivate and uphold the nation's innovation culture by presenting new ideas and research by young people, especially from academia and universities. Indirectly, MIIEX '24 will encourage all inventors towards empowering Science, Technology, Engineering, and Mathematics (STEM), especially in primary and secondary schools.

The new digital landscape also inspires more innovation and new ideas that contribute to various activities, such as business and industries. As a university that encourages "Research and Innovation," we aim to foster more innovative products that benefit scholars, industries, and communities, addressing issues to improve our present and future life.

This exposition would never happen without dedication, teamwork, and commitment. A round of applause should be given to the committee teams, who are the backbone of this exposition. Their hard work, effort, and time made this exposition possible.

Finally, I would like to conclude this brief remark by thanking all the participants and stakeholders for joining the exposition. We hope that this collaboration never ends here.

Thank you.

## **FOREWORD BY THE DEPUTY RECTOR (RESEARCH & INDUSTRIAL LINKAGES)**



**Associate Professor. Dr. Nur Hayati binti Abd Rahman**

**Deputy Rector (Research & Industrial Linkages), Universiti Teknologi MARA (UiTM) Cawangan Melaka**

With much passion and privilege, let me warmly welcome all of you to the Melaka International Innovation Exhibition (MIIEEX), UiTM Cawangan Melaka's flagship event. I firmly believe that events such as these demonstrate the gradual evolution of this platform in terms of its significance and its governing principles within the sphere of learning and the broader scholarly society.

The theme for this year, "Empowering Special Needs Through Invention and Innovation," strongly connects to our mission of using research and technology to make a positive impact on the world we live in. Besides enforcing the message of diversity, this theme also reaffirms our focus on creating products to improve the lives of people with disabilities (PWDs). Such innovations are vital as only through focused constructive changes can society become more sensitive to the needs of all members.

MIIEEX allows researchers, students, and industry professionals to come together, share their innovative research, and develop viable research partnerships. It has been great to see the enthusiasm of the participants and the efforts they put into their projects, which can offer various social and economic benefits. This is why one can state that MIIEEX is a great

opportunity for creating connections between the academic environment and industry, facilitating the implementation of innovative and promising projects.

Finally, I would like to express my sincere appreciation to all the members and supporters of the organizing committee, all the participants, sponsors, and everyone involved in preparing this event. I want to express my gratitude for your commitment and involvement, as the success of MIIEX and the development of an active culture of innovation in our university and beyond is partly owed to your support.

Thank you



## FOREWORD BY THE PROJECT DIRECTOR



**Dr Zulkefli bin Muhamad Hanapiyah**

**Senior Lecturer**

Assalamualaikum and Warmest Greetings,

It gives me a great pleasure, on behalf of the organizing committee, to welcome all participants and speakers to the Melaka International Intellectual Exposition 2024 (MIIEX '24) with the theme "Empowering Special Needs Through Invention and Innovation." We are honoured and pleased to welcome all participants to this biennial event.

MIIEX '24 is a platform that gathers experts from local and international industries, academia, scientists, researchers, and the community to contribute to the advancement of scientific and technological knowledge. This knowledge helps develop disruptive innovation products that improve daily activities for businesses and the community, especially those with special needs.

MIIEX '24 provides an atmosphere for inventors of all levels to gain new exposure and collaborate. Indirectly, this promotes a collaborative and innovative culture that focuses on cutting-edge technologies and new standards in technology and creativity.

MIIEX '24 is anticipated to serve as an arena for participants to acquire and disseminate revolutionary information on ideas and innovation. It is intended that the competition will expose the contestants' minds to the latest technologies and designs, aligning with the government's goal of encouraging innovation in Malaysia.

Finally, I want to compliment my fellow committee members on their amazing efforts, which were vital to the event's success. In addition, I want to thank our co-organizers, event sponsors, and participants. Optimistically, we hope that all new knowledge discovered, invented, or innovated will lead us toward future sustainability.

Thank you.

**FOREWORD BY MELAKA STATE EXCO OF SCIENCE, TECHNOLOGY,  
INNOVATION AND DIGITAL COMMUNICATIONS**



**YB Datuk Fairul Nizam bin Roslan**

**Melaka State Exco of Science, Technology, Innovation and Digital Communications**

Welcome to the Melaka International Intellectual Exposition 2024 (MIIEX '24). It is an honor for me, on behalf of UiTM Cawangan Melaka, to thank all of you for joining MIIEX '24. We are proud to inform you that this is the 13th consecutive year that UiTM Cawangan Melaka is organizing this exposition. Since 2009, UiTM Cawangan Melaka has successfully hosted this innovation exposition. Not only have we succeeded in organizing the exposition, but we have also successfully embarked on commercialized products.

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This exposition would never happen without dedication, teamwork, and commitment. A round of applause should be given to the committee teams, who are the backbone of this exposition. Their hard work, effort, and time made this exposition possible.

Finally, I would like to conclude this brief remark by thanking all the participants and stakeholders for joining the exposition. We hope that this collaboration never ends here.

Thank you.

## MIIEX'24 ORGANISING COMMITTEE

COMMITTEE	NAME
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	RIDZUAN ADLI BIN AZIDIN
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JURY SELECTION AND MANAGEMENT	EN NORAZLAN ANUAL
	PN AFZAN NOR BINTI TALIB
	PN NUR HIDAYAH ZAINI
	CIK FARIHA AIZA BINTI RAMLY
	PN NURUL AIN BINTI MUSTAKIM
	PN NOORZALYLA MOKHTAR
	PN ZATUL HIMMAH BINTI ABDUL KARIM
	CIK MUNA KAMEELAH BINTI SAUID
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	PN NURHAFIZAH MOHD ZOLKAPLI
	CIK MILFADZHILAH MOHD JAMIL
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	SITI RAMIZAH JAMA
	SITI NURSYAHIRA ZAINUDIN
	BUSHRA ABDUL HALIM
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	MUHAMMAD FURQAN BIN AZHAR
	KHAIRUL AZHAR BIN LOCHMAN



## **ABOUT MIIEX'24**

MIIEX'24 is an innovation competition annually organised by UiTM Melaka with the intention to bring together ideas and inspiration that could fit in for commercialization needs.

This event creates a platform for researchers to establish networking, partnership and opportunities to collaborate with industries.

## **OBJECTIVES**

1. Encourage and instil passion towards inventing and innovating among UiTM Cawangan Melaka staff, students and academicians of local and international higher education institutions;
2. Highlight distinguished talents of skilful inventors and exhibit intellectual products, inventions and innovations among local and private tertiary institutions, government and private agencies, including international participants;
3. Become an effective Business Matching platform for participating research products, matching industries and partnering government agencies;
4. Recognise, inspire and promote invention and innovation products to be patented and commercialized;
5. Increase passion towards inventing and innovating through research and boost interests of government and non-government agencies to obtain consultancy services from a line up experts of higher education institutions and UiTM Cawangan Melaka.

## **THEME**

**'EMPOWERMENT OF SPECIAL NEEDS THROUGH INVENTION AND INNOVATION'**

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<b>SALACHOLESTA (OBAT HERBAL KOLESTROL DARI KULIT SALAK) SEBAGAI UPAYA MENINGKATKAN KESEHATAN DAN PEREKONOMIAN DI KOTA PADANGSIDIMPUAN</b>	<b>1429</b>

## **Autiease Kit Ultimate Comfort and Convenience Solution**

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### **Abstract**

Autism spectrum disorder is characterized by challenges with communication, social interactions, sensory sensitivities, and social interactions. These difficulties manifest as anxiety, social isolation, and barriers to performing daily tasks. The current availability of resources may prove inadequate to address the diverse needs of these individuals, leading to a lack of crucial equipment that compromises their autonomy and overall welfare, as well as that of their caregivers. To address these challenges, we propose the development of an “AutiEase Kit” comprising an extensive assortment of specialized tools and resources designed specifically for individuals with autism. It consists of calming techniques, communication aids, sensory aids, and social support tools. The objective is to educate and support caregivers of individuals with autism, promote their social integration, and empower them across various environments. The kit packs comprise various tools, including illustrated communication assistance cards that aid individuals in expressing their needs, sensory aids such as stress balls as well and calming music-playing wireless earphones that aid users in emotional regulation during a sudden trigger. “AutiEase Kit” has a potential for commercialization in terms of its customizable and user-friendly tool kit. It is readily accessible and reasonably priced, catering to individuals and families of diverse socioeconomic backgrounds.

**Keywords: Autism, Support, Sensory Aids, Communication, Tools**

## **1. INTRODUCTION**

The “AutiEase Kit” is a package including essential items to assist parents and caregivers in caring for persons with autism. This package is well-suited for offering assistance and solace to those on the autism spectrum in various circumstances. It may also include products that assist in managing sensory sensitivity, reducing anxiety, and improving communication and social engagement. The kit pack includes sensory aids like stress balls, fidget toys, or structured things to assist users in regulating sensory input and handling stress. Illustrated communication assistance cards are available to assist persons in expressing their requirements and comprehending expectations in various settings. We have enhanced the kit by include a wireless earphone. This allows a nearby person to wear the earphone and play a soothing song or sound to help the user manage their emotions during a quick trigger.

## **2. OBJECTIVE**

The “AutiEase Kit” aims to improve the quality of life and foster the well-being of individuals with autism by offering a wide range of support tools and resources specifically designed to meet their distinct requirements. The “AutiEase Kit” utilises a range of tools to regulate sensory input, aid communication, provide social support, and employ calming techniques. Its objective is to empower individuals with autism to effectively manage sensory sensitivities, express their needs, navigate social interactions, and alleviate anxiety in different environments. The “AutiEase Kit” aims to improve the overall inclusion and support of individuals with autism in many settings, such as family, school, and community, by encouraging independence, supporting self-regulation, and enabling meaningful involvement in daily activities.

## **3. NOVELTY & INVENTIVENESS**

Discover our “AutiEase Kit”, an all-encompassing solution specifically designed for those who are on the autism spectrum and their caregivers. The package consists of sensory aids such as stress balls and fidget toys, which are specifically developed to help individuals manage sensory sensitivities and alleviate anxiety. Additionally, it includes illustrated communication aid cards that assist in communicating requirements and comprehending expectations. By using wireless headphones, caregivers can promptly offer solace through soothing sounds, promoting emotional self-control, and improving overall welfare. Witness the profound effect of the “AutiEase Kit” in enhancing the autonomy and self-empowerment of individuals with autism

and their support systems. Our goal is to favourably impact their journey towards increased well-being and self-empowerment by providing practical resources and empathic help.

#### **4. PRACTICALITY & USEFULNESS**

The primary beneficiaries of the "AutiEase Kit" are individuals diagnosed with autism spectrum disorders and their caregivers, including teachers. "AutiEase Kit" provide individuals with autism spectrum disorders with information and ways to effectively manage their sensory sensitivity, reduce anxiety, enhance communication skills, and navigate social interactions. This kit have the ability to empower individuals by equipping them with the necessary resources to thrive in various environments. Furthermore, the "AutiEase Kit" offers a high level of convenience and user-friendliness, making it suitable for those with autism in any location or situation. The "AutiEase Kit" enables individuals with autism to engage in community activities with greater freedom. For instance, a middle-aged individual with autism can use the kit's adjustable features to create a personalised sensory toolkit for their workplace. This toolkit will enhance their ability to concentrate and improve their communication with colleagues.

In addition, the "AutiEase Kit" serves as an excellent tool for families and caregivers of individuals with autism to effectively fulfil the needs of their loved ones. This kit offer caregivers valuable resources and strategies to effectively navigate challenging situations, promote self-reliance, and enhance their understanding of the specific needs of their loved one.

Teachers and other school staff can create inclusive learning environments by using the resources and tools provided in the "AutiEase Kit." This kit can assist educators in providing support to students with autism in the classroom, fostering the growth of social skills, facilitating communication, and promoting sensory regulation. Furthermore, healthcare professionals that specialise in working with individuals on the autism spectrum can incorporate the "AutiEase Kit" into their therapeutic interventions. This kit are highly beneficial for attaining certain goals related to the development of social skills, emotional regulation, communication, and sensory integration.

## 5. CONCLUSION

In summary, the “AutiEase Kit” provides a comprehensive and all-encompassing solution to assist persons who are on the autism spectrum in navigating numerous everyday scenarios. The “AutiEase Kit” aims to offer practical and efficient instruments for sensory control, communication, and comfort by employing targeted marketing, online presence, collaborations, customisation, education, quality assurance, customer support, and testimonials. The “AutiEase Kit” aims to improve the quality of life and foster inclusivity and understanding within the autism community by giving priority to the needs and preferences of individuals with autism and their caregivers.

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