

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

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78000 Alor Gajah

Melaka Bandaraya Bersejarah

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MiiEX'2024

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024

“EMPOWERMENT OF SPECIAL NEEDS THROUGH INVENTION AND
INNOVATION”

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INNOVATION, INVENTION, AND DESIGN

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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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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	BUSHRA ABDUL HALIM
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	FAIQAH HAFIDZAH BINTI HALIM
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	AFZAN SAHILLA BINTI MOHD AMIR HAMZAH
	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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Revolutionizing ADHD Care: Introducing Focus flow Smartwatch for Enhanced Disability Support

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Abstract

With its extensive monitoring tools and individualized support, the FocusFlow Smartwatch is a game-changer for individuals with ADHD. Effectiveness and inclusion are the main focus, including input from ADHD sufferers and healthcare professionals. This creative strategy is a big step toward raising the quality of life for people with ADHD by promising a future in which technology increases empowerment and accessibility. With its advanced features and all-encompassing design, FocusFlow encourages a society where neurodiverse people can thrive by shedding light on inclusivity.

Keyword: Health Tech¹ Enhanced Disability Support² Advanced Monitoring³ Personalized Assistance⁴ Patient-Centric Care⁵

1. INTRODUCTION

With its enhanced monitoring capabilities and customised support aids, the FocusFlow Smartwatch is revolutionising the treatment of ADHD (Johnson & Brown, 2022). It tackles the particular difficulties faced by people with ADHD and was created through interdisciplinary teamwork and user-centred design (Garcia et al., 2021). Focus, task organisation, and impulse control are improved by the integration of cutting-edge technology. With its innovative design that prioritises individualised care, this innovative tool presents a promising departure from conventional treatment approaches. A major step forward in disability assistance, wearable technology such as the FocusFlow Smartwatch has the potential to empower and inclusively help people with ADHD (Lee, 2020).

2. OBJECTIVES

The FocusFlow Smartwatch's potential to aid individuals with ADHD is examined in this study. It discusses how they might benefit more from wearable technologies, such as this smartwatch. In addition to tracking one's health, the wristwatch provides tailored support for symptom management of ADHD. It highlights the significance of personalized therapies for individuals with ADHD. Reminders and tips to maintain attention can be obtained with this smartwatch. Wearable technology like this has the potential to improve the lives of individuals with ADHD while lowering associated costs and issues.

3. NOVELTY & INVENTIVENESS

The FocusFlow Smartwatch revolutionizes the way that ADHD is treated. It differs from previous approaches in that it tackles the intricate problems associated with ADHD by fusing advanced sensors with an intuitive design. To meet the demands of every individual, it employs a variety of strategies rather than depending on a single one. Our approach to treating ADHD is changing significantly in this new era of sophisticated technology and human understanding.

Focus Assistant:

The Focus Assistant is a neat feature of the FocusFlow Smartwatch. It differs from other smartwatches in that it provides individualized advice for maintaining attention based on real-time assessments. This smartwatch adjusts to your attention levels to help you stay on track throughout the day, whereas other smartwatches just track activities and give notifications. Due to its individualized support for improving concentration, this is especially beneficial for those with ADHD.

Parental Monitoring:

With its fantastic features, the FocusFlow Smartwatch allows parents to monitor their children with ADHD. Using an app, they can monitor their child's activities, receive notifications for crucial information, and collaborate with doctors to create customized plans. This watch focuses more on collaboration and individualized assistance than a GPS tracker designed primarily for general purposes. It provides excellent activity tracking and cognitive support, which are very beneficial for ADHD.

Heart Rate Monitoring:

Real-time heart rate monitoring by the wristwatch allows it to identify symptoms of stress and excitement. Utilizing these details, it employs customized methods to assist the user in relaxing. It's more concerned with stress and arousal detection than standard fitness trackers. It goes beyond simply monitoring fitness to assist in improving stress management. By utilizing biometric data in its intelligent algorithms, it provides holistic assistance by considering both physical and emotional well-being.

Mood Tracker:

A feature on the smartwatch allows users to monitor their mood throughout the day. Those with ADHD can better manage social settings by using this to better understand and regulate their emotions. This feature is quite helpful for ADHD patients since it provides individualized support for managing emotions, which is not available with normal timepieces. It enables individuals to better understand and manage their emotions. This provides targeted support for social situations and other issues associated with ADHD, going beyond simple activity tracking.

Activity and Movement Reminder/monitoring:

The smartwatch closely monitors the motions and activities. It encourages users to stay active and prevent oversitting by sending users messages and reminders. It strives to enhance general health and address additional health problems associated with ADHD by encouraging healthy practices. It helps cognitive abilities and provides individualized reminders to keep them moving, unlike other activity monitors. To avoid further health issues and improve general well-being, this focus on ADHD needs and general health is being applied.

4. PRACTICALITY & USEFULNESS

With its practical design and user-friendly interface, the FocusFlow Smartwatch is a game-changing tool for treating ADHD. It seamlessly integrates into daily life and offers remote monitoring, allowing educators, healthcare professionals, and caregivers to collaborate effectively and gain valuable insights into the patient's behavior. Additionally, it encourages healthy habits through activity tracking, mood monitoring, and stress management tools, fostering resilience and self-regulation skills beyond symptom management. Furthermore, its

rapid feedback and assistance feature help users stay focused and organized throughout the day, improving their general well-being and daily performance in the process.

5. CONCLUSION

With its unique combination of innovation, performance, and user-centred design, the FocusFlow Smartwatch is revolutionising the treatment of ADHD. Personalised treatments and real-time cognitive support are just two of its cutting-edge features that improve well-being and productivity. The watch empowers persons with ADHD with its user-friendly design and remote monitoring features, while also encouraging collaboration between carers and healthcare experts. It alters societal conceptions of neurodiversity by encouraging acceptance and inclusion, enabling people to confidently confront life's obstacles. All in all, it's a ray of hope for all-encompassing ADHD therapy and technology-enabled, compassionate society development.

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