

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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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 (MIIEX), 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.

MIIEX 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 MIIEX 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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Thank you.

MIIEX'24 ORGANISING COMMITTEE

COMMITTEE	NAME
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	DR NORASHIKIN ADAM
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	PN NOR HALAWAH AHMAD
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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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Empowering Autistic Talents

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Abstract

Autistic is a lifelong neurological disorder. It affects brain development and a child's ability to communicate, socially interact, and learn like another individual. There are three types of autistics: Classic Autistic, Asperger syndrome and Pervasive Development Disorder-Not Otherwise Specified (PDD-NOS). Some individuals in the Mild and Hi Functioning have extraordinary abilities and talents that can improve their quality of life in the future. However, there are deficiencies where their skills and talents are unrecognized affecting their work opportunities. Nevertheless, there are inadequacies in which their abilities and aptitudes go unnoticed, hence impacting their chances of finding job. This is attributed to a dearth of program designed to facilitate the progression of abilities and talents in autistic youngsters. Therefore, it is suggested that an all-encompassing training and skill enhancement program be implemented to address this problem. The objective of this program is to provide opportunities for this specific demographic to acquire certification in several skill domains. The certification program will provide a diverse selection of courses, such as Art, Fashion and Design, and Culinary Art, spanning a duration of two years. Additionally, students will have the opportunity to engage in industrial internships. This innovation has the potential to have a profound effect on this specific population of pupils who have exceptional needs. The benefits encompass enhancing their current capabilities while obtaining certification to enhance their prospects for employability. Furthermore, it also offers them the opportunity to gain firsthand experience in the actual work setting through internship placement. Upon program completion, it is anticipated that their skills would be greatly enhanced and strengthened, ultimately resulting in employment prospects. This accomplishment empowers them with the capacity to actively engage in the workforce with assurance. Consequently, they have achieved financial autonomy and do not depend on others or their guardians for financial assistance. The newfound capacity to manage their

own finances enhances the standard of living for autistic individuals and instills in them a feeling of autonomy and self-reliance.

Keywords: Autistic, Employment, Certification Program, Skills and Ability

1. INTRODUCTION

The program offers transformational journeys for individuals with autistic, aiming to address their unique challenges and unlock their full potential. For two years, the program provides a comprehensive curriculum covering a range of skills such as Art, Fashion and Design, and Culinary Art and through immersive experiences and industry internships, it does not look like a participant in developing not only their talents but also valuable insights into the world of work. This holistic approach aims to bridge the gap between training and employment, empowering autistic individuals to succeed in the workforce. Upon execution of the program, participants receive a certificate, validating their skills and building their confidence. Most importantly, the program emphasizes economic independence, providing individuals with the tools to support themselves and live independently. Through opportunities for skill development, industry exposure and certification, the program seeks to empower them to realize their potential and find gainful employment.

2. OBJECTIVE

NeuroBrilliant came up with several core objectives focused on supporting individuals with autistic in their personal and professional development. Firstly, it seeks to provide a wide range of skills development opportunities over two years covering Art, Fashion and Design and Culinary Art. Throughout this duration, participants are immersed in a diverse array of learning experiences tailored to their interests and strengths. By providing access to these enriching opportunities, NeuroBrilliant aims to empower individuals with autistic to unlock their potential and thrive in both personal and professional spheres. Besides that, the program exposes participants to the realities of the workplace through practical industry training, providing them with practical experience and understanding. In addition, the program focuses on developing the existing abilities of individuals with autistic by identifying and nurturing their skills and talents, addressing previously unrecognized deficits. Its main objective is to certify participants upon completion, validate their skills and increase their

confidence to enter the labour market. Ultimately, the program seeks to empower autistic individuals to achieve economic independence by providing them with valuable skills and certifications, enabling them to pursue rewarding employment opportunities and lead self-sufficient lives.

3. NOVELTY AND INVENTIVENESS

NeuroBrilliant is designed to stimulate creativity and innovation among those on the autistic spectrum. We provide a supportive atmosphere for individuals to explore their interests and improve their talents by offering a range of skill workshops in Art, Fashion and Design, and Culinary Arts. We foster uniqueness and creativity in our art workshops by offering a diverse choice of themes and methods suitable for students of all skill levels and interests. For example, in our Foundational Art course, we teach students to employ their senses while sketching, allowing them to represent landscapes, people, and other subjects with accuracy and observation. Similarly, in Fashion and Design, we teach participants the basic elements of design, such as colour, line, form, and proportion, allowing them to express their own vision via garment fabrication and other projects. Finally, our Culinary Programs include a wide variety of subjects, from fundamental kitchen safety to advanced culinary theory, enabling students to improve their abilities in cooking, food preparation, and menu planning. Participants build confidence and independence in the Culinary Arts by combining practical practice and theoretical understanding. Empowering Autistic Talent values variety and originality, and we nurture each individual's creative skills. Upon completion of their studies, participants are awarded the SKM certificate, a recognized credential that enhances their prospects in pursuing future employment opportunities aligned with their newfound skills. This certificate not only validates their achievements but also equips them with tangible qualifications to thrive in the job market. Empowering Autistic Talent is committed to celebrating diversity and fostering the creative potential of every individual within the autistic community

4. PRACTICALITY & USEFULNESS

Combining in Art, Fashion and Design, and Culinary Arts into one program for children with autistic offers a lot of advantages and positive impacts. It provides a holistic approach to skill development, allowing kids to explore their creativity and problem-solving

abilities across different disciplines. By tailoring the program to each child's interests and strengths, it creates personalized learning experiences that boost self-expression and confidence.

Our value proposition centres on the transformative impact we have on autistic individual who possess exceptional skills in art, culinary arts, also fashion and design. Through NeuroBrilliant, we provide a nurturing environment where these individuals are not only recognized for their talents but also guided and supported to further develop and refine them. By offering specialized training, personalized mentorship, and hands-on industry experience, we empower them to reach their full potential and build confidence in their abilities.

Beyond skill development, NeuroBrilliant focuses on fostering independence and self-reliance among participants, equipping them with the tools and resources needed to navigate the professional world successfully. We understand that each individual has unique strengths and challenges, which is why our approach is tailored to meet their specific needs and aspirations.

Furthermore, NeuroBrilliant does not just stop at training, we provide a pathway to tangible opportunities through a recognized certificate that validates their skills and opens doors to employment prospects. This certificate not only serves as a testament to their achievements but also enables them to pursue fulfilling careers in their chosen fields, contributing their talents to diverse industries.

In essence, NeuroBrilliant not only boosts the skills and confidence of autistic individual but also empowers them to carve out meaningful and rewarding paths for themselves, ensuring they are recognized and valued for their remarkable abilities in art, culinary arts, also fashion and design.

5. CONCLUSION

To summarise, this NeuroBrilliant program for autistic individuals provides a revolutionary opportunity for achieving independence and self-reliance. Through the provision of a wide range of skill development opportunities and internships in three courses, this program encourages students to improve their abilities, obtain certification,

and join the profession with confidence. This approach enhances their overall well-being and fosters social integration while embracing and honouring differences.

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