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UNIVERSITI
TEKNOLOGI
MARA

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MAY
2024



International Industrial Revolution 4.0 Exposition

"INNOVATING IDEAS, TRANSPIRING DREAMS"

ABSTRACT BOOK

Strategic Partners:



Perpustakaan
Sultan Badlishah

Organized By:

**COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS,
UNIVERSITI TEKNOLOGI MARA, KEDAH BRANCH**

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UITM Cawangan Kedah Channel

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IREx 2024

The successful inauguration of IR4.0 Exposition IREx 2019 has witnessed ground breaking initiatives, ideas, and innovations materialised into numerous practical devices today. Treading on the same triumph, the College of Computing, Informatics, and Mathematics, UiTM Kedah is thrilled to announce the continuation of said event, IREx 2024 with the theme: *Innovating Ideas, Transpiring Dreams*.

The IREx 2024 aspires to incorporate even more exciting new technologies including, but not limited to, Information & Communication Technology (ICT), Educational Technology & Innovation (ED), Operational Excellence (OE), Internet of Things (IoT), Process Improvement, Ideas & Design, Multimedia, and Electronics that will chart new milestones in human history. This will serve as an excellent platform for scientists and innovators alike to meet the like-minded individuals and showcase inspiring ideas and notable innovations.

PROGRAM SCHEDULE

International Industrial Revolution 4.0 Exposition (IREx 2024)
21ST May 2024 (Tuesday)
Dewan Perdana, UiTM Kedah Branch

TIME	EVENT
8.00 – 9.00 am	Registration & Booth Set Up
9.00 am – 12.00 pm	Exhibition & Judging Session
12.00 pm – 2.00 pm	Obedient Drone Session & Break
2.00 pm – 5.00 pm	Official Closing & Prize Giving Ceremony
5.00 pm	Program Ends

Official Closing Ceremony

International Industrial Revolution 4.0 Exposition (IREx 2024)

TIME	EVENT
2.00 pm	Arrival of Guests and Participants
2.30 pm	Arrival of VVIP
	National anthem - Negaraku And Wawasan Setia Warga
2.40 pm	UiTM
	Welcoming Speech
3.00 pm	Rector's Welcoming Speech
	Officiating Speech
3.10 pm	Gimmick & Montage presentation
3.30 pm	Prize Giving Ceremony
4.00 pm	Photography
5.00 pm	Program Ends

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CATEGORY C

PARCEL MANAGEMENT SYSTEM

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ABSTRACT – The Malaysian Academy of SME and Entrepreneurship Development (MASMED), a consolidation of entrepreneurial centers at Universiti Teknologi MARA, spearheads innovation with UniMAIL, a parcel pick-up facility for students. However, operational challenges hinder efficiency and service quality. UniMAIL faces several challenges such as overreliance on manual processes, scalability issues leading to inefficiencies and errors, time-consuming parcel retrieval, and communication gaps between staff and students. To address these challenges, we propose a web-based parcel management system. This system enables UniMAIL staff to scan parcel QR codes for automatic recording, assigning each parcel a unique identifier for organized storage. Students register parcels online, linking them to the system for seamless tracking. Additionally, a dedicated page displays parcel details, enhancing communication. The online payment options streamline the transactions, hence reducing wait times. This integrated approach enhances efficiency, accuracy, and user experience, optimizing UniMAIL's operations and service delivery. By implementing this web-based system in UniMAIL's daily operation, UniMAIL can significantly increase its operation efficiency and effectiveness that benefits students greatly in the long run. UniMAIL also offers a streamlined and convenient solution for both staff and students.

Keywords: UniMAIL, MASMED, Operational Challenges, Web-Base parcel management



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