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TEKNOLOGI
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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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IRX068	PRO CROSS-MATH CHALLENGE	4
IRX082	MULTIPURPOSE SOAP	5
IRX083	PUFFER FISH BOAT	6
IRX092	MY GAMES ACADEMIA	7
IRX095	'ROBOCRAB' PEMBERSIH SAMPAH	8
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CATEGORY A

TANDAS PINTAR

Hafiez bin Mohd Said¹, Zamri bin Ismail², Ammar Mikhail bin Muhammad Razman³, Muhammad Fakrul Islam bin Rosdi⁴, Muhammad Irfan Hafiy bin Rohemi⁵

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ABSTRAK - Semua orang perlu pergi ke tandas. Tandas yang bersih merupakan satu pilihan yang penting dalam kehidupan. Selain daripada merasa ketenangan semasa berada di dalamnya, adalah penting kebersihan dan sebolehnya dapat mengurangkan sentuhan kepada peralatan tandas. Oleh itu, tandas yang pintar merupakan satu keperluan pada hari ini. Pihak SK Teluk Jamat secara penuh kasih sayang menginginkan semua pihak berasa selesa semasa berada di dalam tandas dengan menyediakan sebuah tandas pintar dengan penutup tandas dapat terbuka dengan sendiri dan tidak memerlukan tenaga manusia untuk membukanya. Inovasi ini dihasilkan daripada pembelajaran mikropengawal robot tong sampah yang dipelajari dalam matapelajaran Reka Bentuk dan Teknologi.

Konsep tandas pintar ini adalah mangkuk tandas akan terbuka apabila seseorang berada berdekatan dengan tandas, mangkuk tandas akan sentiasa terbuka sehingga sensor pengesan tidak mengesan sebarang halangan, setelah itu pembaz akan berbunyi menandakan tudung akan ditutup dan sebagai peringatan kepada pengguna agar membersihkannya semula sebelum beredar daripadanya. Inilah permulaan kepada tandas pintar pada masa hadapan. Semoga dengan kehadiran penciptaan ini, memudahkan semua pihak semasa berada di dalam tandas.

Kata Kunci: inovasi mikropengawal, pengaturcaraan



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