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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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IRX083	PUFFER FISH BOAT	6
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CATEGORY A

'ROBOCRAB' PEMBERSIH SAMPAH

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ABSTRAK - Projek inovasi yang dibangunkan ini diberi nama 'My Robocrab'- pengutip sampah, merupakan satu alat inovasi yang dihasilkan oleh guru dan murid Sekolah Kebangsaan Taman Uda bercirikan teknologi mesra alam. Alat ini adalah sebuah robot yang digunakan untuk mengutip sampah dengan cara menggerakkan 'Robocrab' menggunakan alat kawalan jauh iaitu 'remote control'. Isu utama penghasilan alat ini adalah untuk mengatasi masalah pembuangan sampah merata-rata. Disamping itu, alat ini dihasilkan kerana murid sekarang agak kurang berminat untuk belajar dan mengetahui tentang kepentingan teknologi pada masa hadapan. Dengan penghasilan inovasi ini, ianya juga dapat mendorong murid untuk menjadi lebih kreatif dan inovatif dalam bidang rekacipta. Oleh yang demikian, impak keberkesanan inovasi ini adalah 'Robocrab' dapat membersihkan lantai dengan cara mengutip sampah yang ringan dan memasukkan sampah tersebut ke dalam bekas di bawah badannya. Alat ini juga dapat menarik minat murid-murid untuk bermain sambil belajar cara-cara mengawal alat kawalan jauh. Secara tidak langsung ianya juga dapat memupuk sikap menjaga kebersihan dalam kalangan murid sekaligus dapat menjana idea kreatif dan mengaplikasi pengetahuan dalam kemahiran Sains, Matematik dan Rekabentuk Teknologi yang telah dipelajari.

Kata Kunci: Robocrab, pengutip sampah, kebersihan, rekacipta



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