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TEKNOLOGI
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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

PORTABLE WATER FILTER (POWFiL)

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ABSTRACT - Air merupakan satu elemen yang penting dalam kehidupan manusia. Tanpa air kita tidak dapat meneruskan kehidupan. Untuk memudahkan urusan manusia Portable Water Filter (POWFiL) dicipta bagi kemudahan setiap orang di mana saja mereka berada. Portable Water Filter - POWFiL. Ini merupakan projek berdasarkan kitar semula yang diinovasikan menjadi satu gajet untuk kegunaan semasa kecemasan. Tambahan pula, berdasarkan tinjauan dan juga pemerhatian, aktiviti masyarakat Malaysia sekarang banyak bersahabat dengan alam semulajadi untuk menjaga kesihatan fizikal dan mental. Oleh itu, POWFiL dicipta dan diharapkan dapat membantu masyarakat apabila berkelah di luar kawasan rumah atau melakukan aktiviti di luar iaitu berkhemah di dalam hutan dimana penggunaan air bersih agak sukar atau sumber air bersih sukar didapati, maka penggunaan Portable Water Filter (POWFiL) ini bertepatan untuk digunakan dalam aktiviti memasak makanan dan minuman memandangkan ianya air bersih yang telah disaring dan selamat diminum, Jika dikomersialkan POWFiL ini mampu berdaya saing dipasaran luar kerana ianya mudah alih dan tahan lama serta mudah digunakan bila-bila masa

Keywords: Selamat, bersih, mudah, penapis air mudah alih



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