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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

PUFFER FISH BOAT

Abdul Malik bin Isa¹, Nur Alyaa Aqila Binti Amirudin², Rizq Zufar Bin Mohd Ruzi³, Iman Hifzurrahman Bin Azhari @ Asri⁴

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ABSTRAK - Pengurusan sisa pepejal yang tidak sistematik dan tidak berkesan juga boleh menyumbang kepada masalah pengurusan sisa pepejal. Hal ini berlaku disebabkan oleh sikap ambil mudah segelintir masyarakat yang membuang sisa pepejal mereka yang terdapat dalam pelbagai bentuk terutama didalam sumber air tanpa memikirkan kesan dan akibatnya kelak. Kelemahan sistem pengurusan jelas menimbulkan masalah kepada penjanaan sisa pepejal di Malaysia. Kekurangan tapak pelupusan sampah juga merupakan salah satu isu dalam pengurusan sisa pepejal di Malaysia (Seow, 2003). Air merupakan salah satu komponen ekosistem dunia. Punca utama pencemaran air boleh dikategorikan kepada punca titik (*point source*) dan punca tidak bertitik (*non-point source*) (Jabatan Alam Sekitar Malaysia, 2012). Masalah pengurusan sisa pepejal ini adalah berpunca daripada sikap individu itu sendiri dimana kurangnya didikan yang diberikan kepada mereka. Oleh itu, pendidikan sangat penting semasa di bangku sekolah lagi bagi membentuk masyarakat yang mempunyai ilmu pengetahuan tentang pengurusan sisa pepejal yang betul malahan ia juga dapat membantu memelihara alam sekitar kita daripada berlakunya pencemaran. Isu utama yang hendak diatasi melalui projek reka cipta ini ialah isu pencemaran sumber air yang tidak terkawal. Dengan adanya prototaip *Puffer Fish Boat* ini diharapkan ia sedikit sebanyak membantu mengurangkan dan meminimakan kesan pencemaran alam sekitar terutamanya sumber air dari unsur plastik, pepejal dan seumpamanya.

Kata Kunci: Puffer Fish Boat, alam sekitar.



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