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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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MELIPONI-TECH

Husnina Binti Abd Halim¹, Nor Lina Binti Noor Azmi², Amira Qistina Binti Mazlan³, Walin Izrina Izrul Binti Abdul Rahman⁴, Nurul Izzah Farzana Binti Suhaimi⁵

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ABSTRACT - Meliponi-Tech is a pump that can make it easier to collect honey. We found that traditional method (syringe) lacks efficiency. So, we invented Meliponi-Tech, to deal with the issues. This product is more efficient in terms of time, quality and quantity of honey. It's safe to say that honey is known to be one of the most beneficial foods in the world! Kelulut is a type of honey that is produced by kelulut bees. The study results showed that Kelulut honey is a product that can cure diseases such as heart disease. We have 4 objectives of our product. The first one is to increase the amount of honey produced during spesific time. Second is to prevent the hollowing the honeycomb out. Third, Meliponi -Tech is create as a product that is friendly to bee colonies. And the last one is to reduce the time taken to collect honey. Meliponi-Tech has achieved almost all the set criteria. Among the criteria set are from the aspect of product quality and novelty of this product (Meliponi-Tech) compared to traditional products (syringes). Addictionally, stingless bees (kelulut) farming is being developed locally for their commercial, environmental and educational values. This makes stingless bee farming a new and potential booming agro-industry in Malaysia. In conclusion, Meloponi- Tech is a product that can help farmer to streamlined the honey extraction from the hive while prioritizing the quality and preservation of the honey without damaging the bee hives. Also this product can be one of the alternative product with efficiency and productivity to the beekeepers with modern touch to the product.

Keywords: Honey pump , syringe , beehive , honey



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