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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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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 B

ALTERNATIVE CHICKEN FEED FROM COCONUT DREGS

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ABSTRACT - The utilization of fermented coconut dregs as a potential alternative feed ingredient for chicken has gained attention due to its abundant availability and potential nutritional benefits. This project aimed to investigate the impact of fermentation on the nutritional composition of coconut dregs. The fermentation process involved inoculation of coconut dregs with effective microorganisms (EM4). Analysis of the fermented coconut dregs revealed changes in their nutritional composition. The fibre content was found to decrease, suggesting the breakdown of complex fibre during fermentation. The fat content showed a slight reduction possibly due to the enzymatic breakdown of fats by microorganisms during fermentation. Additionally, the protein content shows increment due to microbial activity that enhance the protein solubility and bioavailability. In conclusion, fermentation of coconut dregs is a promising approach to enhance their nutritional and functional characteristics. The changes observed in the nutritional composition including fibre, fat and protein content, highlight the potential for improved digestibility of chickens. The improved functional properties further expand the possibilities for the application of fermented coconut dregs as an alternative for chicken feed.

Keywords: Alternative feed ingredients, nutritional compositional, coconut dregs, effective microorganisms



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