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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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CATEGORY C

INNOVATION OF THE SMART CATERING HEALTHY (CATHY) APPLICATION TO SUPPORT TODAY'S HEALTHY LIFESTYLE

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ABSTRACT - Increasing prosperity, technological advances, and westernization have led to changes in people's lifestyles and eating habits. These changes have caused people to pay less attention to their personal health, especially regarding the calories consumed daily. Uncontrolled calorie intake can lead to a decreased quality of life and health issues, such as obesity and diabetes, which can result in decreased productivity. Recent changes in people's fast-paced and practical lifestyles, coupled with an increasing awareness of the importance of consuming healthy food tailored to individual calorie needs, present an opportunity for business innovation. This innovation involves the application of technology, specifically in the form of catering services providing healthy food based on smart technology. Combining a healthy catering business with technology can address societal issues related to the need for convenient and efficient access to healthy food tailored to individual calorie needs. Smart technology is utilized to assess individual calorie needs based on personal preferences, enabling the provision of menu recommendations tailored to each individual's requirements. Personal preferences are determined by factors such as height, weight, congenital diseases (such as diabetes and hypertension), and allergies to specific food ingredients. This information is inputted into the system, which processes it using the Analytical Hierarchy Process (AHP) algorithm to generate menu recommendations for individuals to make informed decisions. The outcome of this study is an innovative healthy food catering service that utilizes an intelligent system to provide personalized menu recommendations. This not only simplifies the decision-making process for individuals but also enhances consumer satisfaction and experience with healthy food catering services.

Keywords: Smart Catering, DSS Healthy food, Intelligence Technology, Inovation of Smart Technology, Catering Healthy



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