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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 D

H5P IN HIGHER EDUCATION: PROVEN STRATEGIES TO BOOST ENGAGEMENT AND LEARNING OUTCOMES

Shawira binti Abu Bakar¹, Faikis bin Abu Bakar², Nooni Ezdiani binti Yasin³, Nazrai bin Ahmad Zabidi⁴, Nor Fadzilah binti Ishak⁵
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ABSTRACT - HyperText Markup Language (HTML) 5 package (H5P), a free and open-source HTML5 framework, has emerged as a powerful tool for instructional designers to create engaging and interactive learning experiences using the online learning platform. Open University Malaysia (OUM) has been producing learning materials such as modules from Portable Document Format (PDF) to H5P format. While H5P sees widespread use, its efficacy needs deeper exploration within user interface (UI)/user experience (UX) environments. H5P offers a versatile platform for creating and sharing interactive content seamlessly integrated with existing learning management systems (LMS). Through a comprehensive review of literature and empirical evidence, we highlight the effectiveness of H5P in promoting learner engagement, active participation, and knowledge gaining across diverse disciplines. Moreover, we explore the affordances of H5P in fostering personalised learning pathways, adaptive feedback mechanisms, and collaborative learning environments. This paper investigates the potential of H5P to enhance knowledge acquisition, retention, and critical thinking skills in a competitive university setting. This research will shed light on H5P's true potential for driving academic excellence at the university level. This paper contributes to the discourse on leveraging technology-enhanced learning tools to foster inclusive, interactive, and impactful educational experiences in higher education.

Keywords: H5P, interactive learning, online learning, higher education, learning material.



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