IECBES 2026 Workshop

Workshop 2:
Medical Electronics & Ultrasound: Beginner's Practical Insights with Canon Medical Systems Malaysia

Duration: half day

Venue: UNiKL, Jalan Sultan Ismail, Kuala Lumpur

Date: 11 Dec 2026

Time: 8.30 am – 1 pm

Workshop fee: normal: RM 200 per person

Early bird: RM 180 per person (deadline 15 Oct 2026)

Group registration (min 5 participants): RM 150 per person

Synopsis:

Curious about how modern ultrasound systems work and how electronics are transformed into real-time medical images?
Join this half-day practical workshop and discover the fascinating intersection of electronics, biomedical engineering and medical imaging. Participants will gain an accessible introduction to the fundamentals of medical electronics and ultrasound technology, combined with practical exposure to an industrial-grade ultrasound system. Explore the fundamentals of ultrasound imaging, including how ultrasound echoes are processed into digital medical images, the role of different ultrasound probes, and their clinical applications. A key highlight is the collaboration with **Canon Medical Systems Malaysia**, providing technical insights into the Canon Aplio me ultrasound system, including its workflow functions, ApliGate and AI-automation capabilities, as well as applications in abdominal, vascular, and cardiac imaging.
Participants will also experience live demonstrations and hands-on activities, including exploring different ultrasound probes, comparing image quality at different frequencies, adjusting machine presets, learning basic probe-handling techniques, and performing basic ultrasound scanning under expert guidance.

Speaker: **Assoc. Prof. Ir. Dr. Nabilah Ibrahim**



Associate Professor Ir. Dr. Nabilah Ibrahim is an Associate Professor at the Faculty of Electrical and Electronic Engineering (FKEE), Universiti Tun Hussein Onn Malaysia (UTHM). She received her Bachelor's degree in Telecommunication Engineering and Master's degree in Computer Science from Shibaura Institute of Technology, Japan. She obtained her Doctor of Engineering degree in Electronic Engineering from Tohoku University, Japan. Throughout her academic career at UTHM, Dr. Nabilah has held several key academic and administrative leadership positions. She currently serves as the Head of the Publication and Research Committee**.** Previously, she served as the Head of the Industrial Relations Committee, Head of the Marketing and Promotion Committee, Head of the Department of International Office, and Chief Editor of the International Journal of Integrated Engineering (IJIE). Through these roles, she has contributed to research development, academic publishing, industry engagement, internationalisation, and institutional marketing and promotion.

For further information, please contact: info@iecbes.org

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