

RECORDED WEBINAR TALK ON FUEL CELL TECHNOLOGY

In conjunction with World Engineering Day Celebration
from 2 March 2026 - 7 March 2026



SYNOPSIS:

Fuel cells are electrochemical devices that convert chemical energy directly into electricity with high efficiency and minimal emissions, offering a promising alternative to traditional power generation methods. This direct energy conversion offers several key advantages, including high efficiency, low emissions, fuel flexibility, and modularity, making them suitable for a wide range of applications. This talk provides a fundamental understanding of fuel cell technology and its applications in power generation. It covers the basic concepts and theory of fuel cells, various fuel cell types, and methods for characterizing and analyzing fuel cell performance. The talk will also address the latest developments and applications of fuel cell technologies and their role in the field of alternative energy.



2 March 2026, Monday
11.30am - 1.30pm



ZOOM Platform



BEM Approved CPD Hours : 2
Ref No. : IEM25/HQ/020/T (w)

Organised By:
Public Sector Engineers Special Interest Group (PSESIG), IEM

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SPEAKER:



Dr. Nurul Akidah binti Baharuddin

Dr. Nurul Akidah binti Baharuddin is a senior lecturer and researcher at the Fuel Cell Institute, Universiti Kebangsaan Malaysia (UKM), and a recognized expert in Solid Oxide Fuel Cell (SOFC) technology. She obtained her Bachelor of Engineering (Hons) in Mechanical Engineering, Master of Science, and PhD in Fuel Cell Engineering from UKM. Her research focuses on advancing SOFC technology, particularly for stationary power generation applications. Dr. Akidah has successfully led several major research grants funded by the Ministry of Higher Education and industry partners, with total funding nearing RM2 million. Among these is a SOFC prototype development grant valued at nearly RM200,000, reflecting her strong commitment to translating research into practical solutions. She also holds a patent related to SOFC technology, highlighting her innovative contributions. Actively promoting industry-academia collaboration, Dr. Akidah aims to support the development of technical codes and policies for hydrogen and fuel cell technologies in Malaysia. She currently serves as Vice Chair of the Green ICT Working Group and has previously chaired the Hydrogen Sub-working Group under the Malaysian Technical Standards Forum. Nominated by MCMC, she represents Malaysia as a delegate to the United Nations ITU Telecommunication Standardization Meetings in Geneva.