

Online Technical Talk:

Building Information Modelling (BIM) for Architecture, Engineering, and Construction (AEC) & Mechanical, Electrical, and Plumbing (MEP)

Synopsis

Building Information Modelling (BIM) is revolutionizing the Architecture, Engineering, and Construction (AEC) industry, offering immense benefits, especially in Mechanical, Electrical, and Plumbing (MEP) engineering. By leveraging BIM, professionals can create detailed 3D visualizations of HVAC, plumbing, and electrical systems, enabling a more accurate and coordinated design process. This reduces potential conflicts and errors through clash detection, which is critical in preventing costly rework during construction.

Moreover, BIM fosters collaboration among multidisciplinary teams, streamlining planning and execution. Its capabilities extend beyond construction, supporting effective facility management with precise as-built documentation that aids in lifecycle management, maintenance, and operational decision-making. These efficiencies translate to significant cost savings, improved sustainability, and enhanced project outcomes.

Learning BIM is crucial for engineers as it equips them with the tools to meet modern industry demands. It enhances their ability to design integrated systems, adapt to the increasing complexity of projects, and contribute to sustainability goals. Mastery of BIM is becoming an essential skill, ensuring professionals remain competitive and able to deliver high-quality, efficient, and innovative solutions in the rapidly evolving AEC landscape.

About the Speaker

Ir. Ts. Dr. Salmaliza Salleh is a Senior Lecturer at Universiti Teknologi Petronas, combines extensive academic and professional expertise in civil engineering, sustainable construction, and engineering education. With 19 years of teaching experience, she has spearheaded academic initiatives, including leading EAC accreditation processes for engineering programs and curriculum development. In her industry roles, she led Malaysia's first JKR BIM-integrated project, the National Registration Record Centre, which featured innovative technologies like MyCREST, seismic design, and 70% IBS components.

As a consultant, she managed impactful projects such as the Road Map Study for Selangor Rivers Conservation and structural consultancy for the Malaysia Productivity Corporation headquarters. A committed researcher and mentor, she has supervised over 30 students and published more than 15 indexed journal papers, focusing on digital construction, sustainable materials, and BIM advancements.



The Institution of Engineers, Malaysia
(Penang Branch)



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5.00pm – 7.00pm



BEM CPD Hours: 2
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Speaker:
Ir. Ts. Dr. Salmaliza Salleh



Moderator:
Ir Dr Huzein Fahmi bin Hawari

This Talk is organized by Electronic Engineering
Technical Division (eETD)