

BEM APPROVED CPD: 2

REF NO: IEM26/HQ/016/T (w)

## WEBINAR TALK ON “PRODUCT DEVELOPMENT AND MATERIALS ENGINEERING”

**Date : 7 February 2026 (Saturday)**

**Time : 9.00 am - 11.00 am**

**Platform : Zoom Webinar**

### Registration Fees:

- Student Member : FOC
- IEM Member : RM 15.00
- Non-Member : RM 70.00

### Synopsis:

Product development is typically driven either by science or design approaches to create functional, reliable, and sustainable products. The materials science and engineering (MSE) tetrahedron concept can be applied to understand and optimise material behaviour by linking structure, properties, processing, and performance, while Ashby's charts can be used to compare options and ensure the best material selection, which is crucial for achieving optimal performance, cost efficiency, safety, and durability. Throughout the process, Life Cycle Assessment (LCA) evaluates environmental impacts from raw materials to end-of-life. Recent technologies, such as advanced simulations, digital manufacturing, and smart materials, will enable boosting innovation and creativity and speeding up the creation of high-quality products that are ready for the market.

### Speaker: Dr. Jaronie bin Mohd Jani



Dr. Jaronie bin Mohd Jani is a Malaysian professional engineer and academic with over 23 years of combined industrial and academic experience in mechanical and manufacturing engineering. He is currently a Senior Lecturer at RMIT University Vietnam and previously held senior academic leadership roles at Universiti Kuala Lumpur, including Deputy Dean. His expertise spans engineering design, CAD/CAM, automation, quality assurance, and curriculum development. Dr. Jaronie holds a PhD from RMIT Australia and has extensive R&D experience with Proton, Panasonic, Motorola, and Automotive Lighting. He is widely certified, internationally recognised, and actively involved in research, accreditation, and professional training.