

Webinar Talk on

EFFICIENT TECHNO-ECONOMIC ANALYSIS

WITH CLAUDE AI:

FROM DME PLANTS TO BIODIGESTERS



SPEAKER:

DR. ZULFAN ADI PUTRA

26 AUGUST 2026 (WEDNESDAY)



3.00PM - 5.00PM



ZOOM WEBINAR



Registration Fees:

Student Member : FOC

IEM Member : RM 15.00

Non-Member : RM 70.00

Organised By :
Chemical Engineering Technical Division (CETD), IEM

BEM Approved CPD Hours: 2
Ref No.: IEM26/HQ/357/T[w]

SYNOPSIS

This webinar explores how Claude AI can transform techno-economic analysis (TEA) into a faster, more consistent, and rigorous workflow. Using three real projects—a 50,000-tonne-per-year dimethyl ether (DME) plant, a CO₂ capture and utilization (CCU) facility, and a biodigester—the session demonstrates how Claude can develop CAPEX and OPEX estimates, cash flow projections, sensitivity analysis, Monte Carlo simulations, supply chain risk assessments, and documented assumptions. Participants will also learn how AI can generate professional Word reports or PowerPoint presentations and support investment decisions, including “do not sanction” recommendations. The session highlights quality improvements achieved through a purpose-built Claude skill for TEA.

SPEAKER'S PROFILE

Dr. Zulfan Adi Putra is an accomplished academic and industry professional in Chemical Engineering, with expertise in process synthesis and design, process modelling and simulation, process optimisation, pinch analysis, process integration, debottlenecking, and techno-economic analysis. His extensive knowledge and practical experience enable him to bridge engineering theory with real-world industrial applications, delivering valuable insights into efficient, sustainable, and economically viable process engineering solutions.