

Organised by:

PUBLIC SECTOR ENGINEERS SPECIAL INTEREST GROUP (PSESIG), IEM

BEM APPROVED CPD: 2

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WEBINAR TALK ON INTEGRATED MEP DESIGN AND THERMAL LOAD ANALYSIS IN OPEN BIM

Date : 9 December 2025 (Tuesday)

Time : 3.00 pm - 5.00 pm

Platform : ZOOM Webinar

Registration Fees:

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

Synopsis:

This session examines the technical principles underlying the integration of mechanical systems within a digital design environment, focusing on the analytical foundation of load estimation and energy performance assessment.

Participants will gain an understanding of methodologies for conducting thermal and cooling load analysis, system balancing, and air distribution design in accordance with performance-based design standards.

The session also emphasizes the role of interoperable BIM methodologies in connecting mechanical, plumbing, and structural systems through standardized data exchange protocols. By exploring how model interoperability enhances coordination, attendees will learn how integrated workflows contribute to improved building efficiency and sustainable design outcomes.

Speaker : David de Dios

David de Dios is a seasoned Architect and Structural Engineer (M.Arch. Part III) specializing in Building Information Modelling (BIM) and digital workflows within the AEC sector. Hailing from Benidorm—home to the highest concentration of skyscrapers per capita globally—he brings a comprehensive, cross-disciplinary approach to his work, combining architectural design with advanced structural engineering and BIM integration. An alumnus of the University of Alicante, David has dedicated his career to promoting the transformative benefits of Open BIM technology across international markets.

Currently, he works at the Technical Department at CYPE, where he assists companies and institutions worldwide in their transition to BIM, providing expert guidance to optimize their digital workflows. He has also supported universities in integrating BIM education into their curricula, fostering the next generation of industry professionals. His extensive experience spans over 30 countries, delivering training, consultancy, and seminars on BIM adoption and industry innovation; empowering organizations and institutions, advocating for innovative practices that advance digitalisation and sustainability within the built environment.

