



# Webinar Talk

## INTRODUCTION TO OFFSHORE PLATFORM DESIGN

Organised By :

Civil & Structural Engineering Technical Division, CSETD &  
Oil & Gas Engineering Technical Division, OGMTD IEM



TIME

3.00PM – 5.00PM



ON THURSDAY, 3RD  
SEPTEMBER 2026



ZOOM – VIRTUAL  
PLATFORM



BEM CPD: 2

Ref. No.: IEM26/HQ/255/T(w)

OUR SPEAKER:

**ABIN PULIVELIL THOMAS**



Registration Fees

IEM Student: FOC

IEM Members: FOC

NON-IEM Members: FOC

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# Synopsis

This course provides a structured introduction to the fundamental principles and workflow involved in offshore platform design. It is intended to give participants a clear understanding of how fixed offshore structures are conceived, modeled, analyzed, and verified to ensure safe and reliable performance throughout their service life. The program begins by introducing the purpose and types of offshore structures, along with the key challenges associated with designing in harsh marine environments. It then explains the engineering principles behind offshore design, including safety philosophy, lifecycle considerations, and the application of industry codes and standards. Participants will be guided through the overall digital design workflow used in modern offshore engineering, including how physical structures are idealized into engineering models, how environmental and operational loads are defined and combined, and how structural behavior is evaluated through analysis. The course also covers the interpretation of analysis results, focusing on structural strength, stability, and fatigue performance, as well as the iterative nature of engineering verification. Finally, it links analysis outcomes to practical engineering deliverables, highlighting how results are used for design decisions, reporting, and project execution.

## Speaker's Biodata

Abin Pulivelil Thomas is an accomplished Product Manager at DNV, specializing in Sesam software for offshore structural analysis. With over two decades of experience, he has advanced from structural engineering roles to product leadership, blending technical expertise with strategic vision. He is currently pursuing a Doctor of Business Administration at Golden Gate University and holds advanced degrees in Data Science and Structural Engineering. Abin has led product development, lifecycle management, and customer-focused innovations, ensuring seamless functionality and adoption of Sesam solutions. His career spans technical support, training, and offshore platform design projects across the Middle East, India, and Qatar. Known for his expertise in product strategy, agile methodologies, and stakeholder management, Abin continues to drive digital transformation in engineering software. He is also skilled in Python, VBA, and emerging technologies, reflecting his commitment to continuous learning and innovation.