The Institution of Engineers, Malaysia

# WEBINAR TALK ON
# ROLE OF FORENSIC ENGINEERING IN ADDRESSING DEFECTS 7 DETERIORATION IN OFFSHORE MARINE STRUCTURES

**JOINTLY ORGANISED WITH:**
**OIL, GAS & MINING TECHNICAL DIVISION, IEM &**
**MARINE ENGINEERING & NAVAL ARCHITECTURE TECHNICAL DIVISION, IEM**

BEM APPROVED CPD: APPLYING
REF NO: APPLYING

## SPEAKER:

**Ir. DR. NOOR NABILAH SARBINI**

**11 JANUARY 2025, SATURDAY**
**9.00AM - 11.00AM**

**ZOOM WEBINAR**

## REGISTRATION:

**IEM STUDENT : FOC**
**IEM MEMBERS: RM15**
**NON IEM MEMBERS: RM70**

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## SYNOPSIS

This talk explores the role of forensic engineering in diagnosing defects in marine structures, including material degradation and structural fatigue. It covers the methodologies such as non-destructive testing and root cause analysis, which are important in uncovering underlying issues related to defects and deterioration in marine structures. Case studies of real-world failures are presented to highlight lessons learned and the strategies implemented to prevent recurrence. The discussion also emphasizes the broader benefits of forensic engineering, including improved design practices, cost-effective maintenance solutions, and enhanced regulatory compliance. By integrating forensic insights into the lifecycle of marine structures, engineers can foster safer and more resilient infrastructure that meets the demands of a dynamic maritime environment.

## SPEAKER'S PROFILE

Ir. Dr. Noor Nabilah Sarbini is the Head of Department at the Department of Structure and Materials, Faculty of Civil Engineering, Universiti Teknologi Malaysia. She is specialized in structural and building condition assessment, forensic engineering, concrete durability and safety in construction. She has given many talks and seminars to many groups of design engineers, contractors, researchers and even managers on the design and construction of the aforementioned specialties. She is a qualified Professional Engineer with the Board of Engineers Malaysia (BEM), a member of The Institution of Engineers Malaysia (M.I.E.M) and a committee member for the American Society of Civil Engineers (ASCE) in Forensic Engineering Education, and actively involved in many consultation works in the area of structural design and forensic engineering investigations.