



CEGT TECHNICAL TALK

ZERO-CEMENT CONCRETE

 28 April 2026

 10.30am - 12:00pm

 Microsoft Teams

Microsoft Teams
Link:
<https://rb.gy/kciqbf>

ABOUT THE TALK:

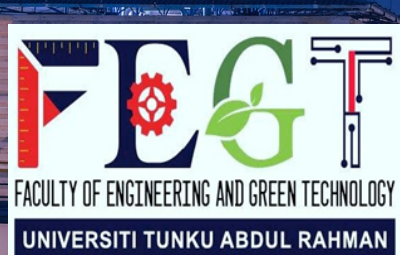
The construction industry is one of the largest contributors to global carbon emissions, with ordinary Portland cement being a major source of CO₂. This talk introduces the concept of zero-cement concrete, an innovative and sustainable alternative that eliminates the use of traditional cement while maintaining structural performance. Participants will gain insights into the materials, mix design, and engineering principles behind zero-cement concrete, including the use of industrial by-products and alternative binders. The session will also explore its mechanical properties, durability, and practical applications in modern construction. In addition, the talk highlights the environmental benefits and challenges associated with adopting zero-cement technologies, as well as its potential role in supporting global sustainability goals and reducing the carbon footprint of the built environment.

SPEAKERS: *Ts. Dr. Tan Leng Ee*



Ts. Dr. Tan Leng Ee is a senior lecturer at Tunku Abdul Rahman University of Management and Technology (TAR UMT) with extensive experience in the field of construction and building engineering. She is a registered Professional Technologist, actively contributing to both academia and industry. She specializes in construction materials and sustainable engineering, with a strong research focus on innovative and eco-friendly materials, including low-carbon and alternative concrete technologies. Her work supports the transition towards greener construction practices by reducing reliance on traditional cement-based materials. Dr. Tan has been involved in numerous research projects, publications, and industry collaborations, particularly in advancing sustainable solutions within the built environment. She is also dedicated to developing future engineers by integrating practical knowledge with sustainability awareness. Her insights bridge academic research and real-world applications, offering valuable perspectives on sustainable construction and zero-cement concrete innovations.

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