

1 DAY SEMINAR ON DESIGN OF PRESTRESSED FLAT SLABS

*INCORPORATING CONVENTIONAL STRIP
DESIGN & FINITE ELEMENT METHOD (FEM)
BASED ON EUROCODE 2 AND TR43
PRINCIPLES*

JOIN NOW !

Seminar Details :

- Date : 29th July 2026, Wednesday
- Time : 9am – 6pm
- Venue : Malakoff Auditorium
Grd Floor, Wisma IEM, PJ
- PD HOURS : 7 HOURS CPD
REF NO.: IEM26/HQ/193/S



speaker

Ir. Dr Low Hin Foo

PhD.Eng (Monash), B.Eng (Hons) Civil, PEPC, MIEM, MACEM,
MIES, CEng MStructE, MIEAust CPEng, ASEAN Eng, APEC
Engineer, IntPE(MY), ACPE(MY)

Registration Fees (inclusive 8% SST)	Online Fees (RM)	Normal Fees (RM)
Student Member	50.00	60.00
Graduate Member	100.00	120.00
Corporate Member	400.00	450.00
Non-Member	800.00	900.00

Register Now !



Synopsis

Prestressed flat slabs have become a hallmark of modern construction, offering efficiency in span, reduced structural depth, and enhanced serviceability. Their design, however, demands a thorough grasp of prestressing behaviour, stress control, and advanced modelling techniques. This talk introduces a practical and structured approach to prestressed flat slab design by integrating fundamental prestressing principles, Eurocode 2 (EC2) requirements, the TR43 stress normalisation method, and Finite Element Method (FEM) modelling for realistic structural behaviour. Key discussions will cover the behaviour of prestressed slabs as two-way systems, the serviceability-driven design philosophy where SLS governs, stress limits across cracked, uncracked, and decompression states, and the comparative use of FEM modelling versus conventional strip methods. Tendon profiling strategies—banded versus distributed layouts—alongside practical detailing at columns, slab zones, and punching regions will also be explored. Real project insights and modelling examples will bridge theory with engineering practice, equipping participants with both conceptual clarity and applied design strategies.

Speakers Biodata

Ir. Dr. Low Hin Foo

PhD.Eng (Monash), B.Eng (Hons) Civil, PEPC, MIEM, MACEM, MIES, CEng MStructE, MIEAust CPEng, ASEAN Eng, APEC Engineer, IntPE(MY), ACPE(MY)

Ir. Dr Low Hin Foo graduated with an Honours degree in Civil Engineering from University Malaya in 1999 and earned his PhD in Engineering from Monash University in 2020, focusing on experimental and numerical studies of prestressed transfer plates subjected to staged casting and sequential stressing. With over 26 years of experience, he has specialised in the design and construction of prestressed building structures and long-span bridges both locally and internationally.

He previously served as Technical Manager at BBR Construction Systems (M) Sdn Bhd, an international prestressing specialist contractor, and is currently Principal Engineer at OSD Consultants (M) Sdn Bhd, Managing Director of OS Alliance (Singapore) Pte Ltd, and Group Managing Director of OSD Alliance Design Group. His expertise spans detailed design, construction, and costing of prestressed flat slab and flat plate systems with irregular column grids, transfer plates, and raft foundations. He has also contributed extensively to bridge engineering, including integral bridges, prestressed segmental box girders, and cable-stayed structures.

Ir. Dr Low has played a pivotal role in major national infrastructure projects such as MRT stations, long span crossings, viaducts for DASH and SUKE highways, and served as Independent Checker Engineer for LRT3 and RTS. Beyond consultancy, he actively shares knowledge through seminars and training courses with IEM, IES, and universities worldwide.

Time	Programme
8.30am-9.00am	Registration
9.00am-10.00am	Introduction to Prestressed Concrete
10.00am-10.30am	Morning Break
10.30am-12.30pm	Prestress Design
12.30pm-2.00pm	Lunch
2.00pm-3.30pm	Analysis of Prestressed Flat Slab
3.30pm-4.00pm	Afternoon Break
4.00pm-5.30pm	Detailing of Prestressed Flat Slab
5.30pm- 5.50pm	Question & Answer Session
5.50pm - 6.00pm	End of the Seminar

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29TH JULY 2026, WEDNESDAY

Organised by :

Civil and Structural Technical Division (CSETD), The Institution of Engineers, Malaysia

Chairman, Civil & Structural Engineering Technical Division (CSETD),

We would like to place an advertisement in the EVENT BOOKLET of the 1 DAY SEMINAR (29TH July 2026) as indicated below and attach herewith a cheque no. for the sum of RM made payable to "THE INSTITUTION OF ENGINEERS, MALAYSIA" being our booking fees:-

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