

**REGISTRATION FORM**  
**1-DAY COURSE ON LATEST GEOTECHNICAL TECHNOLOGY**  
**IN TUNNEL AND UNDERGROUND CONSTRUCTION**

Tel: +603-79315296 Fax: +603-79582851 Email: [manager@iemasb.com](mailto:manager@iemasb.com) Website: [www.iemasb.com](http://www.iemasb.com)

No	Name(s)	M'ship No.	Grade	Fee (RM)*
TOTAL PAYABLE				

You may make payment via Telegraphic Bank Transfer. *(Please forward soft copy of payment advice):-*

Account Name: **IEM ACADEMY SDN BHD**  
 Account Number: **21403500139397**  
 Bank Name: **RHB Bank Berhad**  
 Bank Address: **No. 5, Jalan 52/18, PJ New Town, 46200 Petaling Jaya.**  
 Swift Code: **RHBBMYKL**

**NB: Kindly take note that all telegraphic charges to be borne by the participants.**

Enclosed herewith a crossed cheque No: \_\_\_\_\_ for the sum of RM \_\_\_\_\_ issued in favour of "**IEM Academy Sdn Bhd**" and crossed 'A/C payee only'. I/We understand that the fee is not refundable if I/We withdraw after my/our application is accepted by the Organising Committee as stated in the **cancellation term**. If I/We fail to attend the seminar, the paid registration fee will not be refunded.

Contact Person: \_\_\_\_\_ Designation: \_\_\_\_\_

Name of Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone No.: \_\_\_\_\_ (O) \_\_\_\_\_ (Fax)

\_\_\_\_\_ (H) \_\_\_\_\_ (HP)

Email: \_\_\_\_\_

Signature & Stamp

Date



**IEM ACADEMY SDN BHD** 1016575-D

GST ID No. 002028294144 SST REG. NO. B16-1901-32000008  
*(Wholly owned subsidiary of The Institution of Engineers, Malaysia)*  
 Wisma IEM (1<sup>st</sup> Floor), No. 21, Jalan Selangor,  
 46150 Petaling Jaya, Selangor Darul Ehsan.  
 P.O. Box 224 (Jalan Sultan), 46720 Petaling Jaya, Selangor Darul Ehsan.  
 Telephone No.:+603-7931 5296 Fax No. +603-7958 2851  
 Email: [manager@iemasb.com](mailto:manager@iemasb.com) Homepage: <http://www.iemasb.com>

**1-DAY COURSE ON LATEST GEOTECHNICAL**  
**TECHNOLOGY IN TUNNEL AND**  
**UNDERGROUND CONSTRUCTION**

*by: Ir. Dr Julian Lee*

Organised by:



**HRDF**  
**CLAIMABLE**

EVENT DATE:

**Friday, 7 August 2020**

VENUE: WISMA IEM, PETALING JAYA

TIME: 9.00 AM – 5.00 PM

**BEM Approved CPD Hours = 6.0 HOURS**

**Ref. No: IEM20/PP/020/C**

Grade	Online Rate	Offline Rate
<b>IEM Member</b>	<b>RM 530.00</b>	<b>RM 583.00</b>
<b>Non IEM Member</b>	<b>RM 848.00</b>	<b>RM 901.00</b>

Terms & Conditions:

- Payment via CASH / CHEQUE / BANK-IN TRANSMISSION / WALK-IN
- FULL PAYMENT must be settled before commencement of the course, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participants fail to attend the course, the fee is to be settled in full.
- Fee paid is not refundable. Registration fee includes course notes, refreshment.
- IEM Academy reserves the right to cancel, alter, or change the program due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes. In view of the limited places available, intending participants are advised to send their registrations as early as possible so as to avoid disappointment.

CANCELLATION POLICY

IEMASB reserves the right to postpone, reschedule, allocate or cancel the course. Full refund less is 30% if cancellation is received in writing more than 7 days before the start of the event. No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with prior notification and substitute will be charged according to membership status.

## INTRODUCTION

A new era in the Civil Engineering industry is emerging with technology and tools that are changing how traditional design, plan and execute projects. It is not uncommon in the Tunnel and Underground construction, adoption of latest technology such as using new digital software tools such as Information Technology (IT), Internet of Things (IoT), Artificial Intelligent (AI) and Robotics to enhance their effectiveness and productivity of daily activities. This one-day course includes multiple case studies how these digital tools provide a better execution of the global built environment with attention in Tunneling and Underground Construction. The latest state-of-the-art technology will be covered.

## COURSE OUTLINE

Overview of the current technology using Tunnel Boring Machine (TBM), Innovated Excavation Temporary Support System, Information Technology (IT), Internet of Things (IoT), Artificial Intelligent (AI) and Robotics in the Tunneling and Underground Construction

Case studies from completed and current projects including:

- ❖ Geotechnical analysis using sophisticated computer software (Plaxis, Oaysis, etc)
- ❖ Optimization Excavation and Lateral Support (ELS) design for deep excavation work in Asia
- ❖ Radio-Frequency Identification (RFID) application in safety and logistics management
- ❖ Construction site access control system using facial recognition technology
- ❖ Exoskeletons application
- ❖ Smart safety helmets application with IoT
- ❖ 3D printing, robots in TBM application

## BRIEF BIODATA OF COURSE LEADER



**Ir. Dr Julian Lee** is Principal at Cinnotek International Group, New Zealand, Malaysia, Singapore and Hong Kong. He is serving the Civil Engineering Society as an Adjunct Professor at the Department of Civil Engineering in the University of Hong Kong and also formerly as the Deputy Chief Structural Engineer at the Chinese National Engineering Research Centre for Steel Construction (Hong Kong Branch) of Hong Kong Polytechnic University. Ir. Dr Lee is a Chartered Engineer (CEng) and a Member of Institute of Civil

Engineer (MICE), UK and member of the Hong Kong Institution of Engineers (MHKIE), Hong Kong.

Prior to his current position in Cinnotek, Ir. Dr Lee was formerly Senior Manager – Research and Development of the Construction Industry Council (CIC), Hong Kong, and Lead Engineer (Civil and Structural) of Worley Parsons Pte Ltd, Singapore. Since 1998, he has managed various infrastructure and building projects in the Asia Pacific region, as well as various construction-related research projects. The projects cover construction areas including structural steel, construction technology, sustainability for green building.

## TENTATIVE PROGRAMME

08.30 – 09.00	Registration
09.00 – 10.30	(A) Introduction
10.30 – 11.00	Tea Break
11.00 – 12.00	(B) Current Technology (e.g. TBM, Cut and Cover, Top Down construction, etc)  (C) New Technology (Parametric Analysis using AI, IoT and Sensors application in monitoring, etc)
12.00 – 14.00	Lunch
14.00 – 15.00	Case studies:  (D) MRT Line 2 Malaysia  (E) LTA Singapore  (F) MTR Hong Kong
15.00 – 15.20	Coffee Break
15.20 – 16.45	(G) The Coming Development
16.45 – 17.00	Question and Answer
17.00 – 17.05	End of Course

## ADVERTISEMENT

Dear Organising Chairman,

We wish to confirm as indicated below and enclose herewith our cheque no. \_\_\_\_\_ for the sum of MYR \_\_\_\_\_ (non-refundable) made payable to:-

### PAYMENT METHODS

1. Banker's cheque made payable to "**IEM ACADEMY SDN BHD**"
2. Bank Transfer (Please forward soft copy of payment advise)
3. Bank details:

Account Name : <b>IEM ACADEMY SDN BHD</b>
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### ADVERTISEMENT RATES:

Tick (√)	Location	Rate *	Amount
	Outside Back Cover Page (Colour)	MYR 5,300	
	Inside Front Cover Page (Colour)	MYR 4,770	
	Inside Back Cover Page (Colour)	MYR 4,240	
	Inside Page (Colour)	MYR 2,120	
		<b>TOTAL:</b>	

*\* inclusive of SST at prevailing 6%.*

**[Advertisement artwork must be accompanied with payment before printing of course notes]**

## CONTACT INFORMATION

**(For Invoice and Payment Purposes)**

<b>Contact Person:</b>				
<b>Organisation:</b>				
<b>Position:</b>				
<b>Email Address:</b>				
<b>Mailing Address:</b>				
<b>Contact No.:</b>	Office		Mobile	

Signature: \_\_\_\_\_

Company Stamp:

Date: \_\_\_\_\_