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REGISTRATION FORM
2 -DAY PACKAGE

**Workshop on Railway Electrical System & Seminar on Railway
 Electrical System for LRT / MRT Projects in Malaysia**
On 24th May 2017 and 25th May 2017
(Closing Date : 18 MAY 2017)

No	Name	M'ship No.	Grade	Fee (RM)
SUB TOTAL				
ADD 6% GST				
TOTAL PAYABLE				

Enclosed herewith a crossed cheque No: _____ for the sum of RM _____ issued in favour of "The Institution of Engineers, Malaysia" 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

Photocopies are acceptable



The Institution of Engineers,
 Malaysia



REGISTER NOW
for a 2 -DAY PACKAGE and enjoy discounted fees
(24TH & 25TH MAY 2017 at Wisma IEM)

1. Workshop on Railway Electrical System

REGISTRATION FEES (SUBJECT TO 6% GST)		
	ONLINE	NORMAL (Offline)
IEM Student Member	RM 150.00	RM 180.00
IEM Graduate Member / IRSE Affiliated Member	RM 250.00	RM 300.00
IEM / IRSE Corporate Member	RM 400.00	RM 450.00
Non-IEM / IRSE Member	RM 800.00	RM 900.00

**2. Seminar on Railway Electrical System for LRT / MRT
 Projects in Malaysia**

REGISTRATION FEES (SUBJECT TO 6% GST)		
	ONLINE	NORMAL (Offline)
IEM Student Member	RM 150.00	RM 180.00
IEM Graduate Member / IRSE Affiliated Member	RM 250.00	RM 300.00
IEM / IRSE Corporate Member	RM 400.00	RM 450.00
Non-IEM / IRSE Member	RM 800.00	RM 900.00

3. 2 -DAY PACKAGE for Workshop and Seminar

REGISTRATION FEES (SUBJECT TO 6% GST)		
	ONLINE	NORMAL (Offline)
IEM Student Member	RM 250.00	RM 310.00
IEM Graduate Member / IRSE Affiliated Member	RM 350.00	RM 450.00
IEM / IRSE Corporate Member	RM 550.00	RM 650.00
Non-IEM / IRSE Member	RM 1050.00	RM 1150.00

Organised by

**Electrical Engineering Technical Division,
 The Institution of Engineers, Malaysia**

in cooperation, with

Institution of Railway Signal Engineers (IRSE) – Malaysian Section

SYNOPSIS OF WORKSHOP AND SEMINAR

The railway industry is growing rapidly in Malaysia. The continued investment by the government on the railway would mean that the industry must be prepared to transform itself in facing future challenges in terms of safety, development, train operations, maintenance and future planning. There is also a need to have a better control on the quality and types of products to be introduced in Malaysia. As more and more new products from abroad are being introduced to the industry, we must not ignore the legacy systems that had already been in place in the railway for many years in Malaysia. These pose interesting challenges to the regulator and operators. To transform the industry, we must also look into enhancing safety awareness and technical knowhow within the industry. Simultaneously, we must look into enhancing the capability of the local manufacturers to enable them to support the railway industry. Several new strategies and initiatives are being introduced for this purpose. This includes the establishment of the Railway Safety Committee, development of railway technical standards and human capital technology transfer programme.

To expose participants to fundamental of train propulsion system, AC and DC traction power system design, simulation and sizing of equipment. To expose participants to comprehensive introduction on the requirements of utility bulk power supply scheme for rail transportation system which will also include supply reliability, adequacy, and power quality phenomena and harmonic mitigation using harmonic filters. To expose participants to railway system reliability, availability, maintainability and safety (RAMS), electromagnetic compatibility and electromagnetic interference. We strongly encourage engineering students, engineers and industry players who are currently working in or planning to work in the railway industry or impacted by the evolving technology in the railway industry to attend this workshop

Terms & Conditions:

- For **ONLINE REGISTRATIONS**, only **ONLINE PAYMENT** is applicable [via RHB and Maybank2u – Personal Saving & Personal Current; Credit Card - Visa/Master].
- Payment via **CASH / CHEQUE / BANK-IN TRANSMISSION / BANK DRAFT / MONEY ORDER / POSTAL ORDER / LO / WALK -IN** will be considered as **NORMAL REGISTRATION**.
- **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 lecture notes, refreshment.
- The Organizing Committee 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

IEM reserves the right to postpone, reschedule, allocate or cancel the course. Full refund if cancellation is received in writing more than 7 days before start date 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.

PERSONAL DATA PROTECTION ACT

I have read and understood the IEM's Personal Data Protection Notice published on IEM's website at <http://www.myiem.org.my> and I agree to IEM's use and processing of my personal data as set out in the said

Tentative Programme (WORKSHOP)

8.30 – 9.00	Registration	
9:00 – 10:45	<ul style="list-style-type: none"> • Systems view of Traction power system designs for AC and DC railways in Malaysia • Fundamentals of train propulsion system • Traction Power Simulation fundamentals • Sizing of traction power equipment for traction power system 	Ir. Dr. Amir Basha Ismail, Institution of Engineers Malaysia, EETD: Railway Electrical Systems WG
10:45 – 11:00	Coffee Break	
11:00 – 13:00	<ul style="list-style-type: none"> • Bulk supply scheme from utility perspective for Rail Transportation System • Supply Reliability, Adequacy and Power Quality Considerations • Harmonic mitigation 	Prof. Ir. Dr. Au Mau Teng, Institute of Power Engineering UNITEN
13:00 – 14:00	Lunch	
14:00 – 15:45	<ul style="list-style-type: none"> • Reliability, Availability and Maintainability (RAM) • Safety 	Dr. Ajeet Kumar, L & T Technology Services
15:45 – 16:00	Coffee Break	
16:00 – 17:00	<ul style="list-style-type: none"> • Electromagnetic Compatibility / Electromagnetic Interference 	Dr. Ajeet Kumar, L & T Technology Services
17:00	End of Workshop	

Tentative Programme (SEMINAR)

08:30 – 09:00	Registration	
09:00 – 09:15	Opening Remarks	Ir. Chong Chew Fan, Institution of Engineers Malaysia, EETD Chairman
09:15 – 10:00	Keynote Address by Suruhanjaya Pengangkutan Awam Darat (SPAD) - Overview of Urban Rail Development Master Plan for Greater Kuala Lumpur/Klang Valley	Mr. Yuslizar Daud, Head Rail Division SPAD
10:00 – 10:30	Coffee Break	
10:30 – 11:00	IRSE and Competency	Mr. Aniket Mukhopadhyay, Institution of Railway Signal Engineers - Malaysia Section
11:00 – 11:45	3rd Power Rail or 3rd/4th Power Rail for DC Railway Scheme - The Choice Criteria	Mr. Bassam Mansour, Institution of Railway Signal Engineers
11:45 – 12:30	Design of Power Supply and Traction Power System for a 750V DC Rail Transit Project : A Case Study	Ir. Dr. Amir Basha Ismail, Institution of Engineers Malaysia, EETD: Railway Electrical Systems WG
12:30 – 13:15	Earthing System Analysis for a Light Rail Transit Project: A Case Study	Ir. Dr. Aziz Marzuki Ahmad Marican, Diagnostic Consultancy & Services
13:15 – 14:15	Lunch	
14:15 – 15:00	Traction Power Receptivity for Train Braking Regenerative Energy Recovery System	Mr. Wojciech Kolomyjski, ABB Inc.
15:00 – 15:45	Systems Assurance for Urban Railway Operation	Dr. Ajeet Kumar, L & T Technology Services
15:45 – 16:15	Coffee Break	
16:15 – 17:00	Systems Assurance for Urban Railway Operation (cont.)	Dr. Ajeet Kumar, L & T Technology Services
17:00	End of Seminar	