Chairman

Engineering Education Technical Division c/o The Institution of Engineers. Malavsia Bangunan Ingenieur, Lot 60/62, Jalan 52/4 P.O. Box 223 (Jalan Sultan), 46720 Petaling Java, Selangor Tel: 03-79684001/2 Fax: 03-79577678 Website: www.myiem.org.my Email: shamalah@iem.org.my

REGISTRATION:

Name(s)	IEM M'ship No. / Grade	Fees (RM)
	SUB TOTAL	
	ADD GST @ 6%	
	TOTAL PAYABLE	
Company:Address:		

BEM APPROVED

CPD/PDP Hours: 6 hours

Ref. No: IEM16/HQ/128/C

E-mail: (Please write clearly as the "Confirmation Notification" will be sent via email)

Contact Person:_____ Designation:_____

Signature: _____ Date: _____

Mobile:________Tel(0):_______Fax:______

PAYMENT DETAILS

Cash RM_____

Cheque no. _____ for the amount of RM ____ (non-refundable) and made payable to "" and crossed 'A/C Payee Only".

Terms & Conditions:

- For ONLINE REGISTRATIONS, only ONLINE PAYMENT is applicable [via Credit Card]
- Payment via CASH / CHEQUE / BANK-IN TRANSMISSION / BANK DRAFT / MONEY ORDER / POSTAL ORDER / LO / WALK -IN will be considered as NORMAL REGISTRATION
- For online registrations, please note that payment MUST be made on 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. If the participant failed to attend the course, the fee paid is non refundable. Registration fee includes lecture notes, refreshment and lunches.
- The Organising 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.

WHO SHOULD ATTEND?

Network engineers, M&E engineers, engineering contractors, property developers and consultants involved in designing fixed fibre and wireless telecommunications networks, including networks in single & multi-rise buildings.



Organized by: **Engineering Education Technical Division, IEM**

ONE DAY COURSE ON "FTTx FOR ENGINEERS"

Bv: Assoc. Prof. Dr. Tan Ching Seong

4th May 2016

9.00am - 5.30pm

Venue: C&S and TUS LECTURE ROOM, 2ND FLOOR. WISMA IEM

REGISTTRATION FEE (GST NOT INCLUDED)

Member Type	Online Rate (RM)	Normal Rate (RM)
IEM Student Member	150.00	200.00
IEM Graduate Member	350.00	400.00
IEM Corporate Member	500.00	550.00
Non IEM Member	700.00	750.00

GST is implemented effective 1 April 2015

FEES COVER

- Course notes
- Refreshment (1 lunch & 2 break)
- Certificate of attendance (CPD & CCD)

SYNOPSIS

This course is designed to impart the fundamental knowledge in "Fiber to the *x*" (FTTx), where '*x*' may represent '*building*' (FTTB), 'home' (FTTH), 'curb' (FTTC) etc. Commonly known simply as the FTTH, it is the next generation of network standards, which is being widely implemented all over the world. This course shall provide the exposure to the participants on the importance of the technology, the fundamental of the optical fiber as the core, components and its network. At the end of the day, participants shall go through an understanding assessment before they are qualified for certification.

This seminar is targeted at all those involved in the design and construction of single and multi-rise buildings, and communication network, including, approving agencies, consultants, developers, contractors and designers. The topics will also highlight the improvements pertaining to telecommunications architecture of buildings wanting to adopt FTTH.

TENTATIVE PROGRAMME

Time	Event		
0830	Arrival of participants		
0900	Introduction to Optical Communications		
	Introduction of optical fiber technology and operational principles		
	Optical Fiber construction for various ITU-T compliant optical fibre and their key		
	features		
	Optical Fiber connectivity methods available in the market and their selection criteria		
	 Optical Fiber characteristics: The Do's and Don'ts when handling fibre 		
	Optical Fiber cleanliness: The No:1 enemy for FTTH networks		
1030	Break + Refreshment		
1100	Introduction to FTTH Components and Testing		
	Introduction to Common Optical Distribution Network Components in FTTH		
	FTTH Test & Measurement Equipment and how are they different from conventional		
	ones		
	The importance of Insertion Loss & Optical Return Loss Testing		
	FTTH Testing Phases and its respective methodologies		
1300	Lunch		
1400	Broadband Infrastructure Building By-Laws & Standards		
	Technical Standards and Infrastructure Requirements for Fixed Network Infrastructure		
	Minimum FTTH installation guidelines and standards (MTSFB 002:2009)		
	Minimum FTTH associated international technical and safety specifications.		
	International Electro-technical Commission (IEC) Standards		
	Key functional requirements for a FTTH network		
1530	Break + Refreshment		
1600	Summary + Understanding Assessment		
1700	End		

BIODATA OF THE SPEAKER

Dr Tan Ching Seong is an Associate Professor at Graduate Institute of Engineering, Multimedia University. He also currently serves as the Honorary Secretary of TEEAM and Vice Chairman of MyCIE. Dr Tan is active in consultancy and is a consultant to many companies including SenkoAdvanced Components, Finestar Ltd, etc. He is a recipient of the J. William Fulbright Award 2012/2013.

Dr Tan received his first degree in 1998 from the University of Malaya. He obtained his PhD in Engineering in 2006. Academically, he has served in various institutions as director, department head, research centre chair, and research team leader since 2005. He is a senior member of IEEE, a member of the SPIE (International Society of Optical Engineering) and a Chartered Engineer (UK). He has co-authored an engineering text book, titled: Applied Engineering Failure Analaysia: Theory and Practice. He is the author of over 25 peer reviewed journal papers and over 30 peer reviewed conference papers.

CANCELLATION POLICY

IEM reserves the right to postpone, reschedule, allocate or cancel the course. Full refund less 30% 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 notice.