

# ONE DAY WORKSHOP ON “FIBER TO THE HOME PLANNING AND DESIGN”

by En. Asrul Nazrin Bin Ahmad Nuruddin

- WEDNESDAY
- ~~29 NOVEMBER 2023~~ **POSTPONED TO 17 JANUARY 2024**
- 9.00 A.M. - 4.30 P.M
- PHYSICAL PLATFORM
- AUDITORIUM MALAKOFF, WISMA IEM
- CPD HOURS : 6
- CPD REF NUMBER : IEM23/HQ/506/C



**Cancellation Policy**

No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with 7 days 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.

REGISTER ONLINE AT : [www.iem.org.my](http://www.iem.org.my)

# **SYNOPSIS**

GROWING DEMAND FOR HIGH-SPEED INTERNET IS THE PRIMARY DRIVER FOR THE NEW ACCESS TECHNOLOGIES WHICH ENABLE EXPERIENCING TRUE BROADBAND. IT LEADS TELECOMMUNICATION OPERATORS TO SERIOUSLY CONSIDER THE HIGH-VOLUME ROLL-OUT OF OPTICAL-FIBER BASED ACCESS NETWORKS. FIBER TO THE HOME IS A TERM DESCRIBING A METHOD TO PROVIDE BROADBAND INTERNET TO HOUSEHOLD PREMISES. IT IS CONSIDERED AS A FAMILY OF GIGABIT PASSIVE OPTICAL NETWORK, WHERE INTERNET DATA, VOICE AND VIDEO ARE SENT TO HOUSEHOLD PREMISES THROUGH A COMBINATION OF PASSIVE OPTICAL DEVICES, FIBER OPTIC CABLE AND ACTIVE EQUIPMENT.

THE PROGRAM FOCUSES ON THE DESIGN OF FTTH NETWORK WHICH INCLUDES LOSS BUDGET CALCULATION, NETWORK DESIGN AND METHOD OF IMPLEMENTATION FOR ISP (INSIDE PLANT) AND OSP (OUTSIDE PLANT). BOTH METHODS WOULD REQUIRE SEVERAL CONSIDERATION IN WHICH INCLUDE, CABLE LAYING METHOD, TYPE OF FIBER CABLE, CIVIL WORK REQUIREMENT AND PASSIVE EQUIPMENT SELECTION.

THIS ONE (1) DAY TRAINING PROGRAM WILL INCLUDE THEORETICAL AND BASIC HAND-ON PRACTICAL TRAINING FOR FIBER OPTIC NETWORK.

## **BIODATA OF SPEAKER**

EN.ASRUL NAZRIN GRADUATED WITH DEGREE IN ELECTRICAL & ELECTRONICS ENGINEERING (HONS) FROM UNIVERSITI TENAGA NASIONAL AND HAS WIDE RANGE OF EXPERIENCE IN TELECOMMUNICATION ENGINEERING WITH OVER 20 YEARS OF PRACTICE. HE IS CURRENTLY ATTACHED WITH TELECOMMUNICATION ENGINEERING COLLEGE (TEC) FOR RF AND FIBER OPTIC TRAININGS AND A PRACTISING CONSULTANT INVOLVED IN MANY FTTX PROJECTS RANGING FROM RESIDENTIAL, INDUSTRIAL, EDUCATION FACILITIES AND COMMERCIAL BUILDINGS. HE SPECIALIZES IN FTTH NETWORK PLANNING, DESIGN AND IMPLEMENTATION AND HAS WORKED ON VARIOUS FTTH PROJECTS SUCH AS RAPID DEPLOYMENT FIBER, HSBB PROJECT, JENDELA FIBER INITIATIVE PROJECT AND HOUSING DEVELOPMENT PROJECTS AT KEDAH, PAHANG, MELAKA AND JOHOR. HE IS ALSO AN ACTIVE MEMBER OF MALAYSIA MALAYSIAN TECHNICAL STANDARDS FORUM BHD (MTSFB) FOR FIBER NETWORK FACILITIES GROUP WHICH EMPHASIZE ON CREATING A STANDARD GUIDELINE FOR FIBER OPTIC NETWORK.



# PROGRAM TENTATIVE

TIME	ACTIVITY
8.30 am - 9.00 am	Registration & Breakfast
9.00 am - 9.10 am	Welcoming & Introduction by : Ir. Suresh Kumar, Session Chairman
9.10 am - 10.30 am	Session 1: Introduction to FTTH Design & Planning
10.30am - 10.45 am	Morning Tea Break
10.45 am - 12.30 pm	Session 2 : FTTH Implementation & Installation
12.30 pm - 1.30 pm	Lunch break
1.30 pm - 2.30 pm	Session 3 : - Hands On Practical (Fasc Connector Installation) - Testing (VFL, Power Meter, Light Source) - Fiber Inspection Probe
2.30 pm - 3.30 pm	Session 4 : - Hands On Practical (Splicing FO Cable) - Testing (VFL, Power Meter, Light Source) - Testing (OTDR), Launch & Receive Cable
3.30pm - 4.00 pm	Question & Answer Session
4.00 pm - 4.15 pm	End of Session & Tea Break



“IEM reserves the right to alter or cancel the programme due to unforeseen circumstances at its discretion’.  
For intending participants who choose to ‘walk in without prior registration’,  
IEM SHALL NOT be responsible for any direct or consequential losses”.

# REGISTRATION FORM

One day Workshop on “Fiber To The Home Planning and Design” (Physical Platform)

29th November 2023 (Wednesday)

ORGANIZED BY:

Organised by Information and Communications Technology Special Interest Group (ICTSIG)

Tel: 603-7968 4001/2 Fax : 603-7957 7678

Email: shamalah@iem.org.my

	ONLINE FEE (RM)	NORMAL FEE (RM)
IEM Student Members	180	200
IEM Graduate Members	300	350
IEM Corporate Members	450	500
Non-IEM Members (None of the Above)	700	800

No	Name(s)	Membership No.	Grade	Fee (RM)*
SUB TOTAL				
(PLEASE ADD) + SST 6%				
TOTAL PAYABLE				

“IEM reserves the right to alter or cancel the programme due to unforeseen circumstances at its discretion”.

IEM SHALL NOT be responsible for any direct or consequential losses”.

For further details, kindly contact:

The Institution of Engineers, Malaysia

Bangunan Ingenieur, Lots 60/62, Jalan 52/4, P.O. Box 223 (Jalan Sultan), 46720 Petaling Jaya, Selangor

Tel: 01164521401/2 Fax : 603-7957 7678

Email : shamalah@iem.org.my

# REGISTRATION FORM

One day Workshop on “Fiber To The Home Planning and Design” (Physical Platform)  
29th November 2023 (Wednesday)

## ORGANIZED BY:

Organised by Information and Communications Technology Special Interest Group (ICTSIG)  
Tel: 603-7968 4001/2 Fax : 603-7957 7678  
Email: shamalah@iem.org.my

☐

Cash RM \_\_\_\_\_

☐

Cheque no. \_\_\_\_\_ for the amount of RM \_\_\_\_\_ (non refundable) payable to  
"The Institution of Engineers, Malaysia" and crossed as a/c payee only

FULL PAYMENT must be settled before commencement of the seminar, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participant fails 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. The Registration Fee includes lecture notes, refreshment and lunch (whichever available).

For ONLINE REGISTRATIONS, please note that payment MUST be made BEFORE the closing date. If payment is not received within the stipulated time, the registration fee will be reverted to the normal registration fee.

Contact Name:				
Organisation:				
Designation				
Mailing Address:				
Contact Nos.:	Tel:		Fax:	
Hand phone No.				
E-mail:				

SIGNATURE \_\_\_\_\_

STAMP \_\_\_\_\_

“IEM reserves the right to alter or cancel the programme due to unforeseen circumstances at its discretion’.  
IEM SHALL NOT be responsible for any direct or consequential losses”.  
For further details, kindly contact:  
The Institution of Engineers, Malaysia  
Bangunan Ingenieur, Lots 60/62, Jalan 52/4, P.O. Box 223 (Jalan Sultan), 46720 Petaling Jaya, Selangor  
Tel: 01164521401/2 Fax : 603-7957 7678

Email : shamalah@iem.org.my