



ONE DAY DAY WORKSHOP ON “ROBUST ENGINEERING”

SPEAKER ;

Assoc. Prof. Dr. Khairur Rijal bin Jamaludin

Date : 16th July 2019 (Tuesday)
Venue : Auditorium Tan Sri Prof. Chin Fun Kee
3rd Floor, Wisma IEM
Petaling Jaya, Selangor
Time : 9.00 a.m. – 5.30 p.m.

BEM Approved CPD/PDP Hours: 7.0
Ref.No: IEM19/HQ/258/S

Closing Date: 08TH JULY 2019

NO online registration will be allowed after the Closing Date

Organised by:

***Engineering Education Technical Division (E2TD),
The Institution of Engineers, Malaysia***

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.

SYNOPSIS

Robust Engineering is the creation of world renowned Japanese quality guru Dr. Genichi Taguchi. This workshop outlines some important concepts and case studies of Taguchi Methods used by organizations that are at the cutting edge of technologies and continuing to lead the way using Robust Engineering. The expectation of robust engineering is to minimize the variations to the products function. The robust engineering will focus on optimizing the energy and result to the optimum products function. By doing this, it will enhance the basic and performance need of customers and it will minimize the cost of failure in the market. This is in line with the philosophy of Dr Taguchi: *"The engineered quality of a product is assessed by estimating the loss imparted by the product to the society from the time the product is shipped"*. The workshop aims to illustrate the basic of Taguchi method for improving robustness of the products, process and the system and then eliminate loss to society due to cost of poor quality. The workshop is based on case studies particularly in the automotive and manufacturing industries.

OBJECTIVE

At the end of the session, participants will be able to:

1. Understand the concepts of Robustness with Taguchi Method in products design
2. Appreciate the idea of Design for Quality and able to minimize the product failure in the market
3. Optimum the products functions by minimizing the design variations of the products

AIM

The aim of the workshops is to help participants understand the relationship of the energy function, noise factor and control factor to the ideal function and able to optimize it in order to minimize cost of failure in the market.

SPEAKERS



Khairur Rijal is currently an associate professor at the Genichi Taguchi Centre of Quality and Sustainability in Razak Faculty of Technology and Informatics, Universiti Teknologi Malaysia. He received his bachelor degree in Mechanical Engineering from Universiti Teknologi Malaysia (UTM) in 1996. After working with Proton, he was offered an academia position at UTM. He obtained his M.Sc in Advanced Mechanical Engineering from the University of Warwick, UK and PhD from Universiti Kebangsaan Malaysia. He received direct guidance on robust quality engineering from the son of Dr Genichi Taguchi and he was blessed by the family to establish Genichi Taguchi Centre for Quality and Sustainability in UTM. His research interest is on Quality and Sustainability.

PROGRAMME

TIME	PROGRAMME
08.30 – 09.00	<i>Registration and Welcome Coffee / Tea</i>
09.00 – 09.05	<i>Welcome Address</i>
09.05 – 10.00	Session 1 : Introduction to Robustness in Taguchi Method
10.00 – 10.15	<i>Morning Tea Break</i>
10.15 – 11.15	Session 2 : Signal, Noise and Variations in Products Functions
11.15 – 12.15	Session 3 : Dynamics Optimization with Taguchi Method
12.15 – 13.00	Q & A Session and Discussion
13.00 – 14.00	<i>Lunch</i>
14.00 – 15.00	Session 4 : Static Optimization with Taguchi Method
15.00 – 15.15	<i>Afternoon Tea Break</i>
15.15 – 17.15	Session 5 : Another method by Dr Genichi Taguchi
17.15 – 17.30	Q & A Session and End of Seminar

* IEM reserves the right to postpone, reschedule, allocate or cancel the course.

For further details, kindly contact:

The Institution of Engineers, Malaysia
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 46720 Petaling Jaya, Selangor
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REGISTRATION FORM

ONE DAY WORKSHOP ON "ROBUST ENGINEERING" 16TH JULY 2019

REGISTRATION FEE		
	ONLINE	NORMAL FEE (via email /walk-in)
Student Members	150.00	180.00
Graduate Members	250.00	300.00
Corporate Members	400.00	450.00
Non-IEM Members (all the above categories)	550.00	600.00

No	Name(s)	Membership No.	Grade	Fee (RM)*
SUB TOTAL				
Total Payable				

PAYMENT DETAILS :

☐ Cash RM _____

☐ Cheque no. _____ for the amount of RM _____ (non refundable) and made payable to "THE INSTITUTION OF ENGINEERS, MALAYSIA" and crossed "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.

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 Person : _____ Designation : _____

Name of Organization : _____

Address : _____

Telephone No. : _____ (O) Fax No : _____ (O)

Handphone : _____ (HP) Email: _____

Signature & Stamp

Date

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. If the participant failed to attend the course, the fee paid is non 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.