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BEM APPROVED
CPD/PDP Hours: 6.5 hours
Ref. No: IEM15/HQ/064/C



Organised by:
Mechanical Engineering Technical Division

ONE-DAY COURSE ON "FINITE ELEMENT ANALYSIS FOR ENGINEERS"

By:
Assoc. Prof. Ahmad Rival
Ir. Dr. Tan Chee Fai

~~25 April 2015~~ **Postponed to 30 May 2015 (Saturday)**
 9.00am – 5.00pm

Venue:
 C&S & TUS Lecture Room, 2nd Floor,
 Wisma IEM, Petaling Jaya

REGISTRATION:

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

Company: _____

Address: _____

Mobile: _____ Tel(O): _____ Fax: _____

E-mail: _____

(Please write clearly as the "Confirmation Notification" will be sent via email)

Contact Person: _____ Designation: _____

Signature: _____ Date: _____

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.

REGISTRATION FEE (GST NOT INCLUDED)

Member Type	Online Rate (RM)	Normal Rate (RM)
IEM Student Member	100.00	150.00
IEM Graduate Member	300.00	350.00
IEM Corporate Member	500.00	550.00
Non IEM Member	600.00	700.00

GST will be implemented effective 1 April 2015

SYNOPSIS

Today's engineering product world is driven primarily by two things: quality and cost. FEA of critical design components, be they in the early design stage or on the engineering change list, can greatly enhance the overall product quality. This is accomplished by ensuring that the design can meet deformation, stress, vibration and/or temperature specifications for specified worst case configurations. FEA can also reduce product cost significantly, especially if applied early in the design cycle. Analysis results identify critical areas which carry the bulk of stresses caused by deformation or vibration, as well as less important areas in which a material reduction may be possible. The number of prototypes required can usually be reduced. Finally, the cost of a field repair or replacement will usually be many times the cost of a finite element analysis. Using finite element analysis, then, is really a matter of good engineering and good business.

COURSE OBJECTIVES

This course will support companies' finite element applications, by teaching Basic FEA classes, and working firsthand with design engineers to help them correctly apply the method. Finally, the trainees can provide prompt finite element analysis of the product designs in their daily jobs.

WHO SHOULD ATTEND?

The course is applicable to a wide range of disciplines and areas especially any personnel who plan to involve and responsible in project. The course also can be a refreshment course for engineer, technologist, technician, contractor, academician, student, etc.

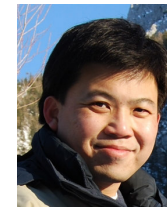
TENTATIVE PROGRAMME

08:30 – 09:00	Registration
09:00 – 11:00	Introduction to Finite Elements Theory (Ir. Dr. CF Tan)
11:00 – 11:15	Tea Break
11:15 – 13:00	Finite Element Analysis Principles (PM Ahmad Rivai & Ir. Dr. CF Tan)
13:00 – 14:00	Lunch
14:00 – 15:30	Modelling Guidelines (PM Ahmad Rivai)
15:30 – 15:45	Tea Break
15:45 – 17:00	Finite Elements Solution Sequence (PM Ahmad Rivai) Case Study (PM Ahmad Rivai & Ir. Dr. CF Tan)
17:00	End of Course

BIODATA OF THE SPEAKER



Associate Professor Ahmad Rivai graduated from Engineering School (Ecole Nationale Supérieure de l'Aéronautique et de l'Espace) in 1994 at Toulouse, France. He has more than 10 years work experience in the aircraft industries as technical engineer and management and more than 10 years academic experience as lecturer. In aircraft industry such as Indonesian Aerospace, he worked on structure design and analysis using CAD and CAE, on aerodynamic as stability and control engineer and wind tunnel test engineer. He has been head of Project Manager at Fairchild-Dornier GmbH, led the development of scope of work, schedule and budget for Flight Physics group and managed its implementation. He used to work on the international environment, 8 years in France, one and half years in Germany and now almost 10 years in Malaysia.



Ir. Dr. Tan Chee Fai is a practising mechanical consultant, researcher and academician. He is graduated with Bachelor of Engineering (Mechanical) and M. Sc. (Manufacturing Systems Engineering) from Universiti Putra Malaysia (UPM), as well as PhD in Industrial Design Engineering from Eindhoven University of Technology (TU/e), the Netherlands. He is a registered Professional Engineer (Mechanical) with Board of Engineers, Malaysia (2006) and a member of Institution of Engineers, Malaysia (2005). He actively involved in academic, publication, consultation as well as research, design and development activities. His field of expertise covers the aspects of mechanical engineering and industrial design engineering. He has vast experience in mechanical design of machinery, robotic and commercial vehicles. He has lead numbers of university and Malaysia Government funded projects as well as international funded projects. In addition, he has published more than 100 publications in international and local journals and conference proceedings that related to mechanical engineering.

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.