IEM (Southern Branch)
24B Jalan Abiad, Taman Tebrau Jaya
80400 Johor Bahru
Tel: 07-3319705 Fax: 07-3363406

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1–Day Course on "Seismic Design of Building According to Malaysia National Annex"

REGISTRATION FORM

Name(s)	M/ship No	Fees
	TOTAL	

Enclosed herewith a Cheque No. : _____ for the sum of RM _____ issued in favour of "***The Institution of Engineers, Malaysia (Southern Branch)***" and crossed '***A/C Payee only***'. If I/we fail to attend the course, the fee paid will not be refunded.

Contact Person: ..... Designation: .....

Name of Organisation: .....

Address : .....

.....

Tel (O) : ..... Fax : .....

Mobile : ..... E-mail: .....

....

Signature Date

IMPORTANT NOTES

- **CLOSING DATE : 4 September 2023 (Monday)**
- **For ONLINE REGISTRATION**, payment **MUST BE MADE VIA ONLINE PAYMENT (**bank-in the participant fees into the Institution's **Maybank Current Account (No. 5-013920-15708)** before the **closing date**.
- **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 seminar, the fees is to be settled in full. If the participant made payment and failed to attend the seminar, the fees paid is non-refundable.
- The Organizing Committee reserves the right to alter or change the program due to unforeseen circumstances.

IEM

The Institution of Engineers, Malaysia
(Southern Branch)

1–Day Course on

"Seismic Design of Building According to Malaysia National Annex"

BEM APPROVED CPD HOURS: 7.0
IEM23/SB/293/C

Date:

9 September 2023 (Saturday)

Venue: Grand Paragon Hotel, Johor Bahru

EARLY BIRD FOR IEM MEMBERS
BEFORE 25 AUGUST 2023
RM 180.00 NETT

Grade	On-line
IEM Student Members (below the age of 24)	RM 25.00
Non-IEM Student Members (Limited seats)	RM 35.00
IEM Members	RM 210.00
Non-IEM Members	RM 250.00

Closing Date: 4 September 2023 (Monday)

SYNOPSIS

For decades Malaysia was considered a country with the least seismic activity. However, the 5th June 2015 earthquake in Sabah derived the attention of authorities and engineers to the seismic vulnerability of gravity-load-designed RC buildings in Malaysia and led to the development of Malaysia's national annex to Eurocode 8 in early 2017. Since then, several states like Sabah have adopted the national annex for the seismic design of new buildings. This one-day course is developed to make engineers familiar with the concept of seismic design and enable them to use the Malaysia national annex for the seismic design of buildings. At the beginning of this course, the important parameters in the seismic design of structures are explained and their effects on the seismic actions are discussed. Then, a brief explanation is given about the seismic hazard and how it is calculated and included in the design codes. Next, different lateral load-resisting systems used in buildings are discussed and their seismic response during past earthquakes are compared. After that, Eurocode 8's seismic design requirements are explained and changes made in the national annex compared with Eurocode 8 are discussed. Then, a step-by-step seismic design guideline is presented and an example of seismic force calculation is provided. This course is prepared such that engineers that do not have any background in seismic design of structures can also benefit from it.

SPEAKER BIODATA

Dr. Mohammadreza Vafaei (PhD, P.Eng, Ts., M.ASCE, M.EERI, M.IET) is currently an Associate Professor in School of Civil Engineering, Universiti Teknologi Malaysia (UTM), Johor, Malaysia. Prior to joining UTM, he served several Consultant Companies in Iran and has led the Seismic Design of many structures like Tall Buildings, Air Traffic Control Towers, Airport Terminals, Water Reservoirs, Telecommunication Towers, and Monumental Structures. His expertise includes Seismic Design and retrofitting of structures, Vibration Control through Passive Dampers, and Structural Health Monitoring. He has been invited as the Keynote Speaker for several International Conferences and Workshops. He has also published more than 65 papers in referred Journals and Conferences.

PROGRAMME

8.30 a.m. – 9.00 a.m.	Registration
9.00 a.m. – 9.05 a.m.	Welcome Speech by IEM (SB)
9.05 a.m. – 10.30 a.m.	**Introduction to Earthquake Engineering**
10.30 a.m. – 10.45 a.m.	Morning Coffee Break
10.45 a.m. – 1.00 p.m.	**Seismic Design Concept in EC8 and Malaysia National Annex**
1.00 p.m. – 2.00 p.m.	Lunch Break
2.00 p.m. – 3.45 p.m.	**Seismic Design Methods and Procedures**
3.45 p.m. – 4.00 p.m.	Afternoon Coffee Break
4.00 p.m. – 5.30 p.m.	**Seismic Design Example**
5.30 p.m. – 6.00 p.m.	- Case Study - Q&A Session
6.00 p.m.	End of Seminar