

## Life Cycle Cost Analysis



# **WEBINAR HALF DAY SEMINAR ON “LIFE CYCLE COST ANALYSIS (LCCA) FOR ASSET MANAGEMENT”**

**SPEAKERs ;**

**ASSOC. PROF. Ir. DR. MOHD. FAIRULLAZI AYOB  
Ir. TS. DR. MOHAMAD ADZIZULROHIM ABD MALEK  
Ir. TS. AZHAR AZMI**

**05<sup>TH</sup> DECEMBER 2023 (Tuesday)**

**9.00 a.m. – 1.00 p.m.**

**Virtual Seminar via “GotoWebinar”**

**BEM Approved CPD/PDP Hours: 4.0  
IEM23/HQ/491/S (w)**

**Closing Date: 28<sup>TH</sup> NOVEMBER 2023**

**NO online registration will be allowed after the Closing Date**

**Organized & Hosted by:**

**Urban Engineering Development Special Interest Group (UEDSIG), IEM**

**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.

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

## **SPEAKER 1 & SYNOPSIS**



### **ASSOC. PROF. Ir. DR. MOHD. FAIRULLAZI AYOB**

**Mohd. Fairullazi** is an Associate Professor at the Department of Quantity Surveying, KAED, IIUM. He was awarded the Best PhD Student Award 2014 in Built Environment for his research on Life Cycle Cost (LCC). He had invented several novelty protocols of LCC analysis that filed for copyright and patent, and also applied in the consultancy works, training services and research projects. He is a registered professional engineer (P.Eng.) with the Board of Engineers Malaysia (BEM) and ASEAN Chartered Professional Engineer (ACPE).

### **SYNOPSIS**

#### ***Title : Overview of Life Cycle Cost Formulas and Calculation***

LCC is as a useful economic assessment technique that provides total cost information, which can facilitate the government and private agencies, asset owners, cost estimators etc. in the built environment to make better decision in determining the most optimum total ownership costs of an asset. This session is a detailed discussion into the formulas and the calculations involved in LCCA.

## **SPEAKER 2 & SYNOPSIS**

### **Ir. TS. DR. MOHAMAD ADZIZULROHIM BIN ABD MALEK**

**Ir. Dr. Mohamad Adzizulrohim** is a Senior Mechanical Engineer at Jabatan Kerja Raya (JKR) where he is regarded as the expert in Asset Management, particularly Life Cycle Costing (LCC). He graduated with a PhD in Asset and Facilities Management from Universiti Malaya in 2019. He is registered as ASEAN Chartered Professional Engineer (ACPE) and Professional Engineer with Practicing Certificate (PEPC).



### **SYNOPSIS**

#### ***Title : Case Studies using LCCA***

This session will showcase the actual applications of LCCA from the perspective of a Government agency. The LCCA Case Studies should assist the Government in appropriate of LCC for the entire procurement process to achieve Value For Money. It provides practical examples as to how to use LCC as economic evaluation factor.

## **SPEAKER 3 & SYNOPSIS**



**Ir. TS. AZHAR AZMI**

**Ir. TS. Azhar Azmi** graduated with Bachelor's Degree in Civil Engineering from UTM, Masters in Highway & Transportation from UPM, and currently undertaking doctoral studies. He specializes in pavement engineering and road asset management, with experience in both the industry and academia with current position as Sr. Lecturer at INTI International University. He is currently the Chairman of IEM UEDSIG.

### **SYNOPSIS**

#### **Title : Development of Deterioration Modelling in LCCA**

Life Cycle Cost Analysis of an asset is influenced by their condition performance throughout the asset's life, which can be predicted using deterioration models. Artificial Intelligence has been recently utilized in the developments of models. Input from these models is essential for the LCCA accuracy, and important in infrastructure asset management as basis for maintenance and rehabilitation decision-making.

[For further details, kindly contact:](#)

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## PROGRAMME OUTLINED

Time	Programme
8:45 am – 9:00 am	<p><b>Registration of Participants</b></p> <p>– Please log in using the IEM’s Invitation Email Link ONLY that will be emailed to your registered email before the event.</p> <p><b>(NO sharing of event link as the ‘invitation link’ is designated for REGISTERED EMAIL ONLY)</b></p>
9:00 am – 9:05 am	Welcoming Address and Introduction by UEDSIG
9:05 am – 10.45 am	<p><b>Session 1</b>  <b>Speaker – Assoc. Prof. Ir. Dr. Mohd. Fairullazi Ayob</b></p> <p><b>Title : <i>Overview of Life Cycle Cost Formulas and Calculation</i></b></p>
	<b>Question &amp; Answer</b>
10.45 am – 11.00 am	Morning Coffee Break
11.00 am – 12.15 pm	<p><b>Session 2</b>  <b>Speaker – Ir. Ts. Dr. Mohamad Adzizulrohimi Abd Malek</b></p> <p><b>Title : <i>Case Studies using LCCA</i></b></p>
	<b>Question &amp; Answer</b>
12.15 pm – 1.00 pm	<p><b>Session 3</b>  <b>Speaker – Ir. Ts. Azhar Azmi</b></p> <p><b>Title : <i>Development of Deterioration Modelling in LCCA</i></b></p>
	<b>Question &amp; Answer</b>
12.45 pm – 1.00 pm	Webinar Wrap Up / Conclusion
1.00 pm	End of Webinar

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

## REGISTRATION FORM

WEBINAR HALF DAY SEMINAR ON  
"LIFE CYCLE COST ANALYSIS (LCCA) FOR ASSET MANAGEMENT"  
**05<sup>TH</sup> DECEMBER 2023 via GoToWebinar Platform)**

Fax: 03-7957 7678

Email: shahrul@iem.org.my / suriani@iem.org.my

	Virtual Online Fee	Virtual Normal Fee (via email)
Student Member	RM 40.00	RM50.00
Graduate Member	RM 75.00	RM 90.00
Corporate Member	RM 125.00	RM 150.00
Non IEM Member	RM 240.00	RM 300.00

No	Name(s)	IEM Membership No.	Grade	Fee (RM)*
SUB TOTAL				
<i>(Please ADD + 6% SST)</i>				
<b>TOTAL PAYABLE</b>				

### 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'.

**SHOULD PAYMENT IS MADE, KINDLY EMAIL THE 'BANK-IN-SLIP' TO IEM FOR VERIFICATION BEFORE THE EVENT FOR EASY REGISTRATION.**

**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 : \_\_\_\_\_

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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
- 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.