

Half Day Talk on “Electrifying Transformation: Converting from Internal Combustion Engine (ICE) to Electric Power”

Date : Saturday, 22 June 2024
Time : 9:00 a.m. – 1:00 p.m.
Venue : IEM (Southern Branch) Training Centre, 24B, Jalan Abiad, Taman Tebrau Jaya, 80400 Johor Bahru, Johor.
Speaker : Ir. Assoc. Prof. Dr. Mohd Junaidi Abdul Aziz, Universiti Teknologi Malaysia

Synopsis

Converting an internal combustion engine (ICE) vehicle into an electric vehicle (EV) involves a significant overhaul of the vehicle's propulsion system and supporting components. The procedure entails planning and assessment, removing the ICE components, installing electric components, positioning and integrating battery packs, modifying the drivetrain, managing cooling and thermal systems, wiring the control system, and finally, testing and validation. In general, careful planning, engineering expertise, and a significant commitment of time and resources are needed to convert an internal combustion engine vehicle to electric power. On the other hand, it presents the opportunity to decrease emissions, increase the longevity of existing automobiles, and aid in the shift to more environmentally friendly modes of transportation.

Time	Tentative Programme
8:30 a.m. – 9:00 a.m.	Registration
9:00 a.m. – 9:10 a.m.	Welcome Speech by IEM (SB) Organising Committee
9:10 a.m. – 10:30 a.m.	Session 1
10:30 a.m. – 10:45 a.m.	Coffee Break
10:45 a.m. – 12:30 p.m.	Session 2
12:30 p.m. – 1:00 p.m.	- Discussion/Case study - Question & Answer Session
1:00 p.m.	Closing & End of Talk

About the Speaker:



Ir. Assoc. Prof. Dr. Mohd Junaidi Abdul Aziz was born in Kuala Terengganu, Malaysia, in 1979. He received his B.S. and M.S. degrees in Electrical Engineering from the Universiti Teknologi Malaysia (UTM), Kuala Lumpur, Malaysia, in 2000 and 2002, respectively; and his Ph.D. in Electrical Engineering from the University of Nottingham, England, UK, in 2008. Since 2008, he has been with the Faculty of Electrical Engineering at UTM, where he is presently an Associate Professor and head of the Power Electronics and Drive Research Group (PEDG). His current research interests include power electronics and electric vehicles, with a special focus on battery management systems.

Participant Fees:

Grade	Fee
IEM Members	RM 80.00
Non-IEM Member	RM 150.00

Closing Date: 19 June 2024

The seminar is strictly limited to **30 participants** only. Registration will be on a first-come-first-serve basis. Kindly return the reply slip to the IEM (SB) office before **19 June 2024** together with a non-refundable cheque for the participant fees made payable to **The Institution of Engineers, Malaysia (Southern Branch)**. Alternatively, you could bank-in the participant fees into the Institution's Maybank Current Account (No. 5-013920-15708), and to facsimile both the Bank-in and Reply Slips to the Institution. The Institution requests all members co-operation in ensuring fees are paid in advance to the seminar. Please also be reminded that fees will not be refunded to absent participants who have paid, and to also note that all reservations must be paid despite participant cancellations. Thank you for your continuous support of the Institution.

Chairman, Sub-Committee on Seminar and Technical Talk, IEM (SB)



REPLY SLIP

To: Hon. Secretary, The Institution of Engineers, Malaysia (Southern Branch) **Fax: 07 - 3363406**

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at IEM (Southern Branch) Training Centre, 24-B, Jalan Abiad, Taman Tebrau Jaya, 80400 Johor Bahru, Johor.

I wish to attend the above talk. I enclosed herewith a cheque no. for the amount of RM.....as payment for the participant fee.

Name of Member: Membership No: I/C No:

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

..... Tel (H/P):

..... E-mail:

Company's Name:

Signature: Date:

Note : Kindly **email the Reply Slip together with the payment slip to iemsouthern@gmail.com** for confirmation.
: Attendance by representative will not be issued with the Certificate of Attendance.

PERSONAL DATA PROTECTION ACT

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