



## One Day Workshop on Traffic Impact Assessment (TIA)

by Ir. Assoc. Prof. Goh Boon Hoe

Ir. Assoc. Prof. Goh Boon Hoe is currently a committee member of Highway and Transportation Engineering Technical Division (HTETD).

The 1-day workshop on Traffic Impact Assessment (TIA) was successfully jointly organised by IEM Highway and Transportation Engineering Technical Division (HTETD) and IEM Penang Branch on Thursday 23 November 2017, at the Penang Skills Development Centre (PSDC), Bayan Lepas, Penang. The workshop, aimed to promote effective transportation planning and foster freshman engineering graduates on TIA methodology, was attended by 6 registered participants.

Workshop was divided into few sessions and facilitated by Ir. Ong Sheng How, and Assoc. Prof. Ir. Goh Boon Hoe. The first session was initiated by Ir. Ong with the introduction to TIA and its importance to the new development. Meanwhile, Assoc. Prof. Ir. Goh has overviewed the current practices of traffic survey and data collection, as well as technical issues and challenges in traffic data collection.

On the second inspiring session by Ir. Ong, he has highlighted the TIA methodology and requirements in accordance to REAM guidelines. He has also briefly described the 4 steps transport demand modelling and criterions to define the level of service for roadways. Nevertheless, Ir. Ong is very generous in sharing his working experience on the past TIA projects, especially on the use of aaSIDRA for intersection analysis. His session ended with a hand-on practical session leading the participant to group and workout the trip generation calculation, balancing of trip distribution and assigning the traffic generation (so called trip assignment model).



Ir. Ong and Ir. Assoc. Prof. Goh jointly lecture on workshop

The final session was closed by Assoc. Prof. Ir. Goh. He has emphasised on the new trend of transportation studies moving towards computer software for transportation modelling and simulation. He has also demonstrated some real case examples of using CUBE DYNASIM and PTV VISSIM in transportation study, especially on previous TIA projects.

The workshop was dismissed with Question-and-Answer, and networking sessions. Participants were amazed with engineering knowledge sharing session and TIA activity in transportation modelling.