# The Institution of Engineers, Malaysia

*Webinar Talk on*

# APPLICATION OF HADDON MATRIX IN ROAD SAFETY ENGINEERING

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**ORGANISED BY:**
**PUBLIC SECTOR ENGINEERS SPECIAL INTEREST GROUP, IEM**

## SPEAKER:

**Mr. Abdul Rahmat Abdul Manap**

📅 6 JUNE 2024, THURSDAY

🕙 10.00AM - 12.00NOON

### REGISTRATION FEE

**IEM STUDENT : FOC**
**IEM MEMBERS: RM15**
**NON IEM MEMBERS: RM70**

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# SYNOPSIS

The Haddon Matrix is a framework used in road safety to analyze and prevent accidents. It categorizes factors into three phases: pre-crash (human, vehicle, and environment), crash (impact on human, vehicle, and environment), and post-crash (response, medical care, and recovery). This systematic approach helps identify interventions at each phase to improve road safety and reduce the likelihood and severity of accidents.

# SPEAKER'S PROFILE

Mr. Abdul Rahmat Abdul Manap has dedicated nearly 17 years to road safety, with a keen focus on injury biomechanics resulting from vehicular collisions. Beginning his career in 2007 at MIROS as one of its pioneer, he spearheaded the crash reconstruction unit, tasked with investigating high-profile incidents nationwide. His contributions played a pivotal role in shaping various national road safety policies. Throughout his tenure, he actively pursued research endeavors, publishing numerous scholarly works in the field. Transitioning from MIROS in 2013, he established a consultancy specializing in crash litigation, employing advanced simulation techniques and meticulous analysis using crash simulation software. His expert testimony is sought after in criminal proceedings and high courts across Malaysia and Borneo. He holds a Bachelor's degree in Biomechanics from RPI New York and completed his Master's by Research at the University of Petronas, currently pursuing a Ph.D. To date, he has investigated and simulated over 700 cases, utilizing his expertise to provide insights and solutions in numerous complex situations.