Jointly Organised by:
The Institution of Engineers, Malaysia, Terengganu Branch &
Project Management Technical Division (PMTD), IEM



Virtual Half Day Workshop on "Application of Geotechnical Instrumentation and Rainfall Monitoring for Safe Slope Rehabilitation"

Date: 28 Nov 2026 (Saturday)
Time: 09.00am - 01.00pm
Platform: Zoom Platform

BEM APPROVED CPD HOURS: 4.0
REF NO :IEM26/TER/517/T

Executive Summary :

This session introduces the basics of dam instrumentation and why it is important for dam safety. Participants will learn how instruments help monitor the dam's condition, detect problems early, and support safe operation and maintenance.

The session will explain the main goals of using instruments on dams, to track how the dam and its surroundings behave over time. This helps engineers find issues early and act before they become serious problems.

Participants will also learn about different types of dam instruments and their uses. These include geotechnical instruments like piezometers and inclinometers that measure soil and ground movements, structural instruments such as crack meters and strain gauges that check the dam's structure, hydraulic and hydrological tools like water level sensors and flow meters, and modern technology instruments such as fiber optic sensors, seismic sensors, and remote sensing using satellites.

By the end of this session, participants will understand the main types of instruments used in dam monitoring, how each works, and why combining these instruments is important. This knowledge will help professionals design and manage effective monitoring programs to keep dams safe and reliable.

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Speaker :
Ir. Ts. Mohd Hafiz bin Rosni

A civil engineer with over 13 years of experience at Tenaga Nasional Berhad (TNB), he holds a Bachelor's Degree in Civil Engineering (Concrete Structures) from Universiti Teknologi MARA (UiTM). Currently, he serves as Senior Engineer in Dam Surveillance & Hydrology at TNB Power Generation Sdn. Bhd., where he leads dam monitoring programs involving instrumentation data analysis, deformation surveys, and bathymetric assessments. Prior to this, he worked as a Scheduler and Civil Engineer for the Prai CCGT Power Station construction and was a Certified Planner Engineer (CPE) and Scheduler Auditor for Regulatory Internal Audit and Compliance (RICO).

With over 7 years specializing in dam surveillance, he is a Certified Dam Inspector by MYCOLD and a qualified specialist in Risk-Informed Decision Making (RIDM) through iPresas and UNITEN. He actively contributes to dam safety in Malaysia as Vice President II of the Young Professional Forum (YPF-MYCOLD) and as a member of the Malaysian National Committee on Large Dams (MYCOLD). He also participated in the national-level Flying Squad under NRECC Malaysia, inspecting 41 high-risk dams and supporting government initiatives to enhance dam safety awareness.

He has authored several notable technical papers including “Pergau Monitoring & Performance” (MYCOLD, 2023), “Assessment of Abnormality Seepage at the Right Abutment of Susu Dam” (ICOLD, Germany), “Sg Perak Scheme Instrumentation Upgrading” (J-COLD, Japan), and “Susu Dam Rehabilitation” (CEPSI 2025). He has been invited as a speaker and trainer at key industry events such as “Dam Surveillance for All TNB Dams” (BBA 2023), “Dam Management – Structure Integrity, Sedimentation & Asset Management” (JPS 2024), and the ICDSME Pre-Workshop (MYCOLD 2023). In 2024, he served as a trainer for the Certified Dam Safety Inspector Program, delivering the module on Dam Safety Inspection and Data Monitoring.

Chairman,
Project Management Technical Division
The Institution of Engineers Malaysia,
Lots 60 & 62, Jalan 52/4, P.O. Box 223 (Jalan Sultan),
46720 Petaling Jaya, Selangor Darul Ehsan
Tel: 03- 7890 0134
Email: syafiq@iem.org.my
Website: www.myiem.org.my

REGISTRATION FORM

VIRTUAL HALF DAY WORKSHOP ON APPLICATION OF GEOTECHNICAL INSTRUMENTATION AND RAINFALL MONITORING FOR SAFE SLOPE REHABILITATION

28 November 2026 (Saturday) Closing Date : 25 Nov 2026

REGISTRATION FEE'S (subject to 8% SST)		
	ONLINE FEE (Via IEM Portal)	**NORMAL FEE (Via Quotation & Invoice)**
IEM Student Members	**40.00**	**50.00**
IEM Graduate Members	**75.00**	**90.00**
IEM Corporate Members	**125.00**	**150.00**
Non-IEM Members (Non of the Above	**240.00**	**300.00**

NAME	MEMBERSHIP NO. / GRADE	FEES (RM)
	Sub Total:	
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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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I have read and understood the IEM's Personal Data Protection Notice published on IEM's website at http://www.myiem.org.my and I agree to IEM's use and processing of my personal data as set out in the said notice.

"IEM reserves the right to alter or cancel the programme due to unforeseen circumstances at its discretion'. For intending participants who choose to 'walk in without prior registration', IEM SHALL NOT be responsible for any direct or consequential losses".