

WEBINAR TALK ON SLOPE STABILIZATION WORKS USING SOIL NAILING AND ROCK BOLT

Speaker:

Ir. RAFTAH MAHFAR



11 NOVEMBER 2025, TUESDAY



4.00PM - 6.00PM



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SYNOPSIS

Slope Stabilization works is a significant challenge to Geotechnical Engineers, as it aims to ensure that the safety and stability of structures built on or near slopes, as well as protect the natural environment from damage caused by landslides and erosion. Slope stabilization refers to any implemented technique that aims to stabilize an unstable or inadequately stable slope. Soil nailings and Rock bolts are one of the slope stabilization techniques used to stabilize new or existing slope, involving the installation of reinforcement bars into soil or rock, connecting them with a facing system (such as shotcrete). The aim is to increase the Factor of Safety of the slope to a level that is considered adequate and create a reinforced stable mass.

Slope Stabilization design is unique as it required an evaluation in term of geology and geotechnical engineering study. In this talk, Ir. Raftah will share her technical experiences through her geotechnical engineering related project.

SPEAKER'S PROFILE

Ir. Raftah Mahfar is currently a Director of SCG Consultants Sdn. Bhd., a Structural, Civil, Infrastructure and Geotechnical Consultants. She holds a Degree in Civil Engineering from Universiti Teknologi Malaysia (1985) and Master of Science in Civil & Structural Engineering from Universiti Kebangsaan Malaysia (1990). She has more than 35 years of technical experience in Geotechnical Engineering design and construction. Her present projects include Upgrading Jalan Muar-Tangkak-Segamat - Bypass Road Bandar Tangkak, Kajian DID Manual 2nd Edition: Dam Engineering, Rehabilitation & Reinforcement Works on Sembrong Dam and etc. Ir. Raftah is a Professional Engineer with Practicing Certificate with the Board of Engineers, Malaysia (BEM). Ir. Raftah is active as Corporate Member of Institution of Engineers, Malaysia (IEM). She is also an IEM Trainer for Geotechnical Design Engineering Course, Committee member of IEM Disaster Risk Reduction Advisory Board and Special Committee on IEM Structured Training year from year 2017 to date.