

Rocscience-ISEG Workshop on Numerical Modelling in Rock Engineering

As part of the EGNM conference, a workshop on “Numerical Modelling in Rock Engineering” was conducted on two days leading to the conference, i.e., on 25th & 26th October at IIT Delhi. The workshop was offered jointly by ISEG and Rocscience, one of the leading developers of geotechnical software from Canada. The objective of the workshop was to provide a background on the numerical modelling for rock engineering problems using two and three-dimensional finite element tools.



The workshop, which was delivered by Dr Manoj Verman, Vice President ISEG, saw an enthusiastic participation by participants from across the industry with representation from organisations like GSI, NHPC, THDC, L&T, RITES, WAPCOS, CIMFR, ITD Cementation etc.

Rocscience provided the participants the license for 3 weeks for their entire range of software. This helped the participants to carry out hands-on exercises during their workshop. The following modules were covered in the workshop:

1. Introduction to Finite Element Method for geotechnical problems
2. Analysis of underground excavations using a two-dimensional approach
3. Support design for tunnels using three-dimensional FE tools
4. Continuum numerical modelling for jointed rock mass problems
5. Rock slope stability analysis using shear strength reduction method
6. Groundwater analysis
7. Probabilistic analysis for surface and underground excavations

A guest lecture was also delivered by Prof K.S. Rao of IIT Delhi during the workshop.

The workshop concluded with distribution of certificates of participation to all participants.