Mine planning education

Maptek™ Vulcan™ helps students at the Technological Educational Institute of Western Macedonia, Greece.

Mining has been at the forefront of new technology for decades. The constant need for improved efficiency, safety and profitability has always been the driving force for development and implementation of the latest technological advances. The mine planning area has traditionally attracted new algorithms and methods to address old and new problems.

Maptek™ Vulcan™ is one of the most advanced mine planning software packages available, consistently leading the mining software market with higher efficiency, integration and user friendliness. The importance of trained professionals who can effectively use sophisticated tools like Vulcan is widely recognised by the mining industry.

Vulcan has been installed for almost 20 years in the Department of Geotechnology and Environmental Engineering, and used to teach computerised mine planning to our undergraduate students.

A dedicated Mining Information Technology course is taught to third-year students, covering all aspects of mine planning with computer software. The friendly interface, advanced visualisation capabilities, clear workflow and high number of integrated algorithms make Vulcan the ideal environment for teaching mine planning to future engineers.

> Gaining hands-on experience with software used by thousands of mining professionals worldwide is invaluable to students.

The course notes have been developed over the years, keeping pace with software developments and providing a complete mine planning study through a set of sequenced exercises.

Last year, these notes (written in Greek) were published as a comprehensive reference book titled *Introduction to Mining Information Technology with Maptek Vulcan*, based on version 10 of the software. With over 500 pages printed in colour, it introduces students to the fundamentals of samples databases, geological modelling, resource estimation and block modelling, mine design, optimisation and scheduling.

In addition to the dedicated mine planning course, Vulcan is used to support other courses such as Geostatistics, Surface and Underground Mining. Several final year projects have also been based on Vulcan, providing students with further insight into specific mine planning problems.

The benefits of learning mine planning through Vulcan have been recognised by both students and academic staff. Many cases have been reported where our graduates were accepted for postgraduate studies or employment, largely due to the experience and knowledge of the software gained during their studies.

Thanks to
Dr Ioannis Kapageridis
Associate Professor
Technological Educational Institute of Western Macedonia

Maptek Calendar

2018

September 17-19
GeoAfrica 2018
Johannesburg, South Africa

October 14-18
Aust. Geoscience Council Convention
Adelaide, South Australia

October 16-19
CIDEMICH 2018
Talca, Chile

October 17-18
AEMQ Xplor
Montreal, Quebec, Canada

October 23-26
13th Congreso de Mineria de Sonora
Hermosillo, Mexico – Booth 252

October 23-26
Geotechnical Engineering for Open Pit
Perth, Western Australia

October 31-November 3
14th IMME
Kolkata, India

November 18-23
XV Congreso Geológico Chileno
Concepción, Chile

November 19-21
3er Simposio Sasore 2018
Santiago, Chile

November 28-30
AusRock Ground Control in Mining
Sydney, NSW, Australia

December 2-3
Annual Conference SME Arizona
Tucson, Arizona, USA

2019

January 27-30
45th ISEE Conference
Nashville, Tennessee, USA

January 28-31
AME Roundup
Vancouver, BC, Canada

February 24-27
SME
Denver, Colorado, USA

March 3-6
PDAC
Toronto, Ontario, Canada