

# IMCET 2025

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[www.imcet.org.tr](http://www.imcet.org.tr)

## EXPLORATION, RESERVE

- Exploration activities
- Drilling technology
- Resource estimation, feasibility
- Geographic information systems

## ORE PREPARATION/BENEFICIATION

- Crushing, grinding and classification
- Physical enrichment
- Characterization and process mineralogy
- Mineral processing and metallurgical processes
- Coal and energy
- Industrial raw materials
- Precious metals and Rare Earth Elements
- Chemical processes in ore beneficiation
- Flotation and surface chemistry
- Plant design and applications
- Water management and treatment
- Artificial intelligence-supported process prediction and control in mineral processing
- Automation in mineral processing

## MINING OPERATIONS

- Production processes in mining
- Drilling-blasting
- Excavation and transportation
- Automation and equipment technologies in mining
- Ventilation
- Rock mechanics and rock engineering applications
- Heat mining (geothermal)
- Solution mining
- Space mining
- Deep sea mining
- Advanced mining methods and technologies
- Sustainable mining practices
- Critical raw materials and supply chain
- Economic/financial analysis of mining projects

## TECHNOLOGY AND INNOVATION

- Planning, optimization and design
- Modeling, simulation
- Digitalization and data science in mining
- Artificial intelligence, big data, robotics and information technologies in mining
- Computer applications process control in mining

## MINING AND ENVIRONMENT

- Environmental issues and risk management
- Waste management and recycling
- Mine closure and reclamation
- Social licence

## OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT IN MINES

### OTHER

- Mining engineering and ethics
- Education in mining
- Mining law
- Mining policies
- Mining history

