

Bachelor of Technology and Diploma in Mining Engineering

We are pleased to provide a curated list of open educational resources for the B. Tech and Diploma in Mining Engineering Programs. These are only for the purpose of additional readings and support classroom interactions.

Basic Electrical Engineering

- Johnson, D. (2014). *Fundamentals of electrical engineering*. OpenStax CNX. Open Textbooks.
<https://www.ece.rice.edu/~dhj/courses/elec241/col10040.pdf>. License: CC BY.
- McLaughlin, D. J., & Howe, W. C. (2025). *Applied electrical engineering fundamentals*.
University of Massachusetts Amherst Libraries.
<https://openbooks.library.umass.edu/funee/>. License: CC BY.

Engineering Graphics and Design

- Anonymous. (2026). *Engineering design graphics*. EngineeringTechnology.org.
<https://engineeringtechnology.org/engineering-graphics/>. License: CC BY.
- Ford, M. (n.d.). *Engineering graphics and design*. University of Washington Libraries.
<https://uw.pressbooks.pub/enggraphics/>. License: CC BY-NC-SA.

Mineralogy, Petrology and Stratigraphy

- Perkins, D. (2020). *Mineralogy*. The University of Tennessee at Chattanooga Pressbooks.
<https://utc.pressbooks.pub/mineralogy/>. License: CC BY-NC-SA 4.0.
- Johnson, E. A., & Liu, J. C. (n.d.). *Introduction to petrology*. Virtual Library of Virginia (VIVA).
<https://viva.pressbooks.pub/petrology/>. License: CC BY-NC-SA 4.0.

Mine Surveying

- Leung, R., & Hill, A. (2025). *Data analytics for open-pit mining: Examining vehicle interactions, material movement and compositional uncertainty with bucket inference and Monte Carlo simulation*. engrXiv. <https://engrxiv.org/preprint/view/5972/9904>. License: CC BY 4.0.

Introduction to Mining

- Schulte, K., & Lumen Learning. (2022). *Mining*. Lumen Learning.
<https://courses.lumenlearning.com/geo/chapter/reading-mining/>. License: CC BY.

Geology for Mining Engineering

- Deline, B., Harris, R., & Tefend, K. (2015). *Laboratory manual for introductory geology*.
University of North Georgia Press.
<https://web.ung.edu/media/university-press/Laboratory%20Manual%20for%20Introductory%20Geology%20Updated%20082817.pdf?t=1510260756287>. License: CC BY-SA.

Rock Mechanics

TU Delft OpenCourseWare. (n.d.). *Principles of rock mechanics*.

<https://ocw.tudelft.nl/courses/principles-of-rock-mechanics/>. License: CC BY-NC-SA 4.0.

Advance Mining Geology

Schulte, K., & Lumen Learning. (n.d.). *Geology*. Lumen Learning.

<https://courses.lumenlearning.com/geo/chapter/reading-mining/>. License: CC BY-SA.

Structural Geology

Earle, S. (2015). *Physical geology*. BCcampus Open Education Pressbooks.

<https://ecampusontario.pressbooks.pub/geology/>. License: CC BY 4.0.

McGoldrick, S. (2020). *A practical guide to introductory geology*. Open Education Alberta.

<https://pressbooks.openeducationalberta.ca/practicalgeology/>. License: CC BY.

Rock Slope Engineering

Lopes, P., & Lima, H. (2026). *A DL-Based Approach for Evaluating Mine Slope Instability*.

engrXiv. <https://engrxiv.org/preprint/view/6352>. License: CC BY 4.0.