INNOVATION of MINING ENGINEERING
At
UNIVERSITY of LIBERIA

PRESENTED

By

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ABSTRACT

Mining is an innovative & Hazardous profession. Thus, it is required that students studying Mining Engineering apply innovative skills by developing basic Mining Engineering Models, to be on pile with their peers in top mining schools around the globe.

The Mining Engineering Department of the University of Liberia is aimed at enhancing the innovative skills of her students.

This Presentation presents some of the innovative Mining Engineering Models developed by students of Mining Engineering Department, UL, from 1st Semester Academic 2016/2017 through 2nd Semester Academic 2016/2017.
An Open Cast Mine
MNG Gold Mine (Liberia)

Gold Dore

1.0 An Open Pit Diamond Mine With Spiral Ramp
2.0 Belt Conveyor With Tub for Material Handling in Mines
Developed 2\textsuperscript{nd} 2016/2017 By Mine 316 Students
3.0 An Open Pit Mining Model With Lighting & Processing Facilities

Developed 2nd 2016/2017 By Mine 316 Students
4.0 A Power Electric Rope Shovel Excavator

Developed 2nd 2016/2017 By Mine 446 Students (Seniors)
5.0 A 120T Mine Dumper

Developed 2nd 2016/2017 By Mine 316 Students
6.0 Shovel & Dumper Combination IN MINE
An Operating View of Shovel Excavator & Dumper IN MINE
7.0 Longwall Shearer – This Machine has revolutionized Mining

Developed 2\textsuperscript{nd} 2016/2017 By Mine 316 Students
8.0 Slake Durability Apparatus for Abrasive Testing of Rocks (Rock Mechanics)

Developed 2\textsuperscript{nd} 2016/2017 By Mine 316 Students
9.0 An Open Pit shifted to Underground Mine

Developed 2nd 2016/2017 By Mine 446 Students (Seniors)
10.0 Integrated Underground Bore & Pillar & Longwall

Developed 2\textsuperscript{nd} 2016/2017 By Mine 446 Students (Seniors)
12. Hydraulic Jack Used in Oil & Gas Production
Developed 2\textsuperscript{nd} 2016/2017 By Mine 400 Students
13. Geothermal Power Plant (a renewable energy source)
Developed 2\textsuperscript{nd} 2016/2017 By Mine 400 Students
14. Hydro Power Plant (a renewable energy source)
Developed 2\textsuperscript{nd} 2016/2017 By Mine 400 Students