



INNOVATION OF MINING ENGINEERING 2017

DEPARTMENT OF MINING ENGINEERING

COLLEGE OF ENGINEERING

UNIVERSITY OF LIBERIA

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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 poster presents innovative Mining Engineering Models developed by students from 1st Semester Academic 2016/2017 through 2nd Semester Academic 2016/2017.

THESE MODELS ARE ORDERLY PRESENTED BELOW:

1.0 An Open Pit Diamond Mine and Associated Facilities



The First Mining Engineering Model Developed by Mine 316 Students during 1st, Academic 2016.

2.0 Belt Conveyor With Tub for Material Handling in Mines



Developed 2nd 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



An Operation View of Shovel Excavator & Dumper

7.0 Longwall Shearer



Developed 2nd 2016/2017 By Mine 316 Students

8.0 Slake Durability Apparatus for Abrasive Test of Rocks



Developed 2nd 2016/2017 By Mine 316 Students

9.0 Integrated Underground Bore & Pillar Longwall



Developed 2nd 2016/2017 By Mine 446 Students (Seniors)

10. An Open Pit shifted to Underground Mine



Developed 2nd 2016/2017 By Mine 446 Students (Seniors)

11. Underground Bore & Pillar Mine with Ventilation Facility



Developed 2nd 2016/2017 By Mine 446 Students (Seniors)

12. Hydraulic Jack Used in Oil & Gas Production



Developed 2nd 2016/2017 By Mine 400 Students

13. Geothermal Power Plant (a renewable energy source)



Developed 2nd 2016/2017 By Mine 400 Students

14. Hydro Power Plant (a renewable energy source)

