

Curriculum of the MS in Mining Engineering

The curriculum of the proposed program is in line with HEC guidelines. Following HEC guideline, for the successful completion and award of the proposed degree, candidates will either need to complete 30 credit hours of course work or complete 24 credit hours of course work along with a minimum of 6 credit hours for research work/thesis.. The courses are listed in Table 1.

Table 1: Curriculum of the MS in Mining Engineering

S. No.	Course Code	Course name	Credit
Core courses			
1	SS - 801	Research Methodology	Non – CH Course
2	MinE - 811	Open Pit Mine Planning & Design	3
3	MinE - 812	Underground Mine Planning & Design	3
5	MinE - 831	Applied Geotechnical Engineering	3
4	MinE - 841	Advanced Resource Modelling and Estimation	3
Electives courses			
6	MinE - 822	Operation Research	3
7	MinE - 823	Discrete Optimization	3
8	MinE - 832	Rock and Soil Slope Engineering	3
9	MinE - 833	Geotechnical Investigations and Project Management	3
10	MinE - 821	Computer-aided Mine Design	3
11	MPE - 831	Mineral Processing	3
12	MinE - 861	Mine Ventilation	3
13	MinE -851	Mineral Economics	3
14	COMP-844	Artificial Intelligence	3
Thesis			
15	MinE - 899	Master Thesis	6