

SYNERGY POLYTECHNIC, BBSR

The Lesson Plan

Discipline: Mining	Semester: 5th	Name of the Teaching Faculty: Srikant Malick
Subject: UG Metal Mining	No of Days/per week class allotted: 04	Semester from Date: 1.7.24 to Date: 18.11.24
Week	Class Day	Theory/Practical Topics
1st	1st	Access to ore body and mode of
	2nd	entries selected discuss about
	3rd	Adits, inclines and shaft,
	4th	applicability of entries
	5th	- topic continue -
2nd	1st	- topic continue -
	2nd	Discussion about formation of
	3rd	mineral deposit.
	4th	Level interval, type of method
	5th	in UG Metal Mining
3rd	1st	Open Raising method
	2nd	Two compartment method
	3rd	Tora raise lift.
	4th	VCR method
	5th	Raise boxer
4th	1st	Development of Ore pass system
	2nd	- topic continue -
	3rd	- topic continue -
	4th	- topic continue -
	5th	- topic continue -
5th	1st	Comparative study between Coal
	2nd	and Metal Mining sector
	3rd	- topic continue -
	4th	- topic continue -
	5th	- topic continue -

Srikant Malick
Sign of Faculty

18/11/24
HOD

S. Babu
Principal 11/6/24

SYNERGY POLYTECHNIC, BBSR

The Lesson Plan

Discipline:	Semester:	Name of the Teaching Faculty:
Mining	5 th sem	Srikant Mallick
Subject:	No of Days/per week class allotted:	Semester from Date: to Date:
VIG Metal Mining	04 days	1.7.24 18.11.24
Week	Class Day	Theory/Practical Topics
1 st - 6 th	1 st	Discussion type of stoping methods
	2 nd	use in VIG metal mine.
	3 rd	Classify stoping methods with
	4 th	application, factor affecting method
	5 th	of stoping.
2 nd - 7 th	1 st	- topic continue -
	2 nd	- topic continue -
	3 rd	Arrangement of stoping
	4 th	Layout for drilling, blasting,
	5 th	transportation and supports.
3 rd - 8 th	1 st	- topic continue -
	2 nd	- topic continue -
	3 rd	Open Stoping
	4 th	Open stoping with Pillars
	5 th	Shrinkage stoping
4 th - 9 th	1 st	Cut & fill stoping
	2 nd	Top slicing
	3 rd	Sub-level caving
	4 th	Square set stoping
	5 th	Block caving
5 th - 10 th	1 st	Discuss about stone drifting method
	2 nd	gradient of drift
	3 rd	- topic continue -
	4 th	- topic continue -
	5 th	- topic continue -

N.F
Sign of Faculty

Ang 11/06/24
HOD

D. Jais
Principal 11/6/24

Lesson
Discipline
Subject

SYNERGY POLYTECHNIC, BBSR

Lesson Plan

Discipline: Mining	Semester: 5th sem	Name of the Teaching Faculty: Srikant Mallick
Subject: UG Metall Mining	No of Days/per week class allotted: 04 days	Semester from Date: 1.7.24 to Date: 18.11.24
Week	Class Day	Theory/Practical Topics
1st-11th	1st	Describe about drilling and blasting,
	2nd	support, transportation, drainage,
	3rd	ventilation, lighting arrangement
	4th	organization and supervision, method
	5th	of drifting
2nd-12th	1st	— topic continue —
	2nd	— topic continue —
	3rd	— topic continue —
	4th	— topic continue —
	5th	— topic continue —
3rd-13th	1st	Explain causes & prevention of
	2nd	rock burst
	3rd	— topic continue —
	4th	Describe and discussion use of jumbo
	5th	drill with air leg.
4th-14th	1st	— topic continue —
	2nd	Describe various Loading &
	3rd	Transportation system L.H.D, L.P.D.T.
	4th	Rockers Shovel, Spiral chutes
	5th	— topic continue —
5th-15th	1st	— topic continue —
	2nd	— topic continue —
	3rd	Scraper, spiral chutes etc
	4th	
	5th	

N.F
Sign of Faculty

Ang 11/06/24
HOD

Jalena 11/06/24
Principal