


## SYNERGY POLYTECHNIC, BBSR

### The Lesson Plan

Discipline:	Semester:	Name of the Teaching Faculty:
MNE	6 <sup>th</sup>	Amaranath Gond
Subject:	No of Days/per week class allotted:	Semester from Date: 13-1-24 to Date: 28-04-24
Mineral Dressing		No of Weeks:
Week	Class Day	Theory/Practical Topics
1st	1st	Introduction, describe, objective & scope of mineral dressing U/G and O/C mines
	2nd	
	3rd	
	4th	Explain the principle of Blake and Dodge jaw crusher, gyratory, cone, roll crusher
	5th	
2nd	1st	-do-
	2nd	-do-
	3rd	
	4th	-do-
	5th	All basic concept cover of unit operation
3rd	1st	Explain the principle of ball mill operation, open circuit grinding, close circuit grinding,
	2nd	
	3rd	
	4th	wet grinding
	5th	-do-
4th	1st	Explanation, principle of industrial screening, type of screening
	2nd	
	3rd	
	4th	It's operation of classifiers & their application.
	5th	
5th	1st	Explain the general principle of Wilfley table & its operation of Gravity concentration
	2nd	
	3rd	
	4th	Develop elementary idea regarding the operation jigs.
	5th	

  
 Sign of Faculty

  
 HOD

  
 Principal

**SYNERGY POLYTECHNIC, BBSR**

**The Lesson Plan**

Discipline:	Semester:	Name of the Teaching Faculty:
MNE	6th	Amornath Goud
Subject:	No of Days/per week class allotted: 4	Semester from Date: 16-01-24 to Date: 28-04-24
Mineral Dressing		No of Weeks:
Week	Class Day	Theory/Practical Topics
6th <del>1st</del>	1st	-do-
	2nd	-do-
	3rd	
	4th	Explanation, fundamental principle of heavy
	5th	media separation process.
7th <del>2nd</del>	1st	-do-
	2nd	-do-
	3rd	
	4th	-do-
	5th	-do-
8th <del>3rd</del>	1st	Doubt class for the explanation procedure
	2nd	for size analysis and use of standard
	3rd	
	4th	screen as also screening technique
	5th	New chapter of floatation will be started
9th <del>4th</del>	1st	Comprehend elementary principle of
	2nd	forth floatation, practical utility of
	3rd	
	4th	frother, collection, modifier, depressants.
	5th	-do-
10th <del>5th</del>	1st	-do-
	2nd	-do-
	3rd	
	4th	-do-
	5th	-do-

Amg  
Sign of Faculty

Amg 16/01/24  
HOD

Amg 16/01/24  
Principal

# SYNERGY POLYTECHNIC, BBSR

## The Lesson Plan

Discipline: <b>MNE</b>	Semester: <b>6th</b>	Name of the Teaching Faculty: <b>Amarnath Gmd</b>
Subject: <b>Mineral Dressing</b>	No of Days/per week class allotted: <b>4</b>	Semester from Date: <b>16-01-24</b> to Date: <b>26-04-24</b> No of Weeks:
Week	Class Day	Theory/Practical Topics
<b>11th</b> <del>1st</del>	1st	Describe & illustrate floatation cell
	2nd	-do-
	3rd	
	4th	-do-
	5th	-do-
<b>12th</b> <del>2nd</del>	1st	Magnetic & Electrostatic separator
	2nd	Explain, Principle of operation of
	3rd	
	4th	magnetic & electrostatic separator
	5th	-do-
<b>13th</b> <del>3rd</del>	1st	-do-
	2nd	-do-
	3rd	
	4th	-do-
	5th	-do-
<b>14th</b> <del>4th</del>	1st	Describe application of separator in
	2nd	mineral dressing.
	3rd	
	4th	-do-
	5th	-do-
<b>15th</b> <del>5th</del>	1st	-do-
	2nd	-do-
	3rd	
	4th	
	5th	

*Ang*  
Sign of Faculty

*Ang 16/01/24*  
HOD

*Debraj 16/1/24*  
Principal