

No	Information on subject	
1	Unit name	Mineral Processing I
2	Code	Met-31012
3	Classification	Engineering subject
4	Credit value	2 SLT credit
5	Semester/Year offered	1/3
6	Pre-requisite	Met-11011, EM-21003
7	Mode of delivery	Lecture, Practical and Tutorial
8	Assessment system and breakdown of marks	
	Practical	15%
	Tutorial	15%
	Mid-term/ final examination	70%
9	Academic staff teaching unit	
10	<p>Course outcome of unit;</p> <p>In this course, students will</p> <ul style="list-style-type: none"> • describe the main dressing steps and concentration stages, reduction process, sizing techniques. • demonstrate the sizing operation and crushing process and grinding operation. • Calculate the recovery of concentrate. 	
11	<p>Synopsis of unit;</p> <p>The course covers the principle of mineral processing. The course introduce student to mineral, ore, steps in mineral dressing, concentration stages, necessity of dressing and economic analysis. And then detail lecture of crushing, grinding, laboratory sizing control, Industrial sizing, gravity concentration methods.</p>	
12	<p>Topic</p> <ol style="list-style-type: none"> 1. Introduction 2. Crushing 3. Grinding 4. Laboratory sizing control 	

	5. Industrial sizing 6. Magnetic & Electrostatic Separation
13	Main reference; Ore Dressing I by U Tin Tun
14	Addition Reading Material; - Mineral Processing Technology, Barry A coils, Seventh Edition.