

Tentative lab Schedule

Notes:

- 1) Each Laboratory Reports is due one week after completion of sessions for each laboratory.
- 2) Reading assignment is given in the laboratory manual for each laboratory, the chapters specified in the textbook and reference book.

2nd Week--3rd Week	Lab 1: Mineral particle size analysis Reading: Lab manual for size distribution analysis The chapters cover Sieving and Sedimentation methods Laboratory Report – Particle size distributions
4th Week--5th Week	Lab 2: Characterization of grinding events Reading: Lab manual for grinding date analysis The chapters cover mechanisms of particle size breakages Laboratory Report – breakage and selective functions
7th Week--8th Week	Lab 3: Fine particle classification by hydrocyclone Reading: Lab manual for design of hydrocycone The chapters cover classification, and parameters governing sedimentation Laboratory Report – Fine particle size distributions, and material balance of overflows and underflows
10th week--11th Week	Lab 4: Thickening Reading: Lab manual for design thickener The chapters cover clarification, thickening, and flocculation Laboratory Report – Thickener design
12th Week	Lab 5: Flotation of sulfide ore Reading: Lab manual for copper sulfide ore flotation The chapters cover flotation and surfactants Laboratory report – Flotation recovery
13th Week --14th Week	Lab 6: Magnetic separation of minerals Reading: Lab manual for magnetic separation of mixed minerals. The chapters cover magnetic separation of minerals and ores. Laboratory report – Evaluation of separation efficiency