

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA

LESSON PLAN

Semester: 4th (Fourth)

Subject: Process & Handling of Material(Theory)

Branch: Chemical Engineering

Name of the Faculty Member: Mr. Amit Kumar Behera

Period	Module/Number	Topic to be covered
1	01	Introduction
2	01	Particle size, shape, Specific surface area, etc.
3	01	
4	01	
5	01	Size Reduction: Laws of grinding
6	01	Size reduction equipments
7	01	
8	01	
9	01	
10	02	Open Circuit & closed Circuit grinding
11	02	Size Separation
12	02	Size Separation, screening, screening equipments
13	02	
14	02	
15	02	
16	03	Trommels, Capacity & effectiveness of screens, Magnetic and Electrostatic Separators
17	03	Motion of particles through fluid, drag Coefficient, Free and hindered setting,
18	03	
19	03	
20	03	Classifications: Sink & float method, Jigging, Tabling.
21	04	Filtration, plates & frame filter , Leaf filter, Rotary filter
22	04	
23	04	
24	04	
25	04	
26	04	Mixing & Agitation
27	04	Power consumption in Mixing equipment
28	04	
29	04	
30	04	
31	04	Different Conveyers
32	04	
33	04	
34	04	
35	04	Beneficiation circuit of different minerals
36	04	

