

**VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA**

**Lesson plan**

**Semester: 6<sup>th</sup>**

**Subject: Mass Transfer II**

Lecture	Module	Topic
1	1	Liquid - liquid Operations: Introduction, liquid - liquid equilibria
2	1	Analytical solutions for single stage operations
3	1	Graphical solutions for multistage stage operations
4	1	Analytical solutions for multistage stage operations
5	1	Graphical solutions for continuous operations
6	1	Counter current operation without reflux
7	1	Counter current operation with reflux
8	1	Fractional extraction
9	1	Equipment for liquid contacting operations,
10	1	Single stage contacting equipment
11	1	Multistage equipment
12	2	Leaching Introduction
13	2	Operation of solid
14	2	Steady and unsteady state operation
15	2	Analytical methods of leaching operation
16	2	Single operations
17	2	Multistage operations
18	2	Equipment of leaching

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19	2	Equipment of leaching
20	2	Problems on leaching operation
21	2	Multistage leaching problems
22	3	Adsorption introduction
23	3	Adsorption equilibria
24	3	Theory of adsorption
25	3	Industrial adsorbents
26	3	Industrial adsorbents
27	3	Adsorption isotherms
28	3	Adsorption isotherms
29	3	Single stage adsorption operation
30	3	Multistage operations
31	3	Ion – Exchange introduction
32	4	Drying introduction & mechanism of batch drying
33	4	Drying Equilibria and equipment of drying
34	4	Drying rate curve
35	4	Batch and continuous drying
36	4	Time of drying and calculations
37	4	Equipment for batch and continuous drying operations
38	4	Design of dryers
39	4	Problems on drying
40	4	Problems on drying

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