

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

**Lesson plan**

**Semester: 7<sup>th</sup>**

**Subject: Coal Processing Technology**

Lecture	Module	Topic
1	1	Preparation of coal
2	1	Clean coal technology
3	1	Coal processing
4	1	Screening of coal
5	1	Size reduction of coal
6	1	Selection of coal,
7	1	Pulp/Slurry density
8	1	Washability of coal
9	1	Pulverization of coal
10	1	Advantages and disadvantages
11	1	Metallurgical coal
12	2	Coal beneficiation processes
13	2	Principles of gravity concentration processes
14	2	Heavy medium separation
15	2	Jigging
16	2	Flowing film concentration
17	2	Cyclone separation
18	2	Froth flotation
19	2	Centrifugal separators
20	2	Coarse coal separator
21	2	Fine coal separator
22	3	Dry beneficiation of coal
23	3	Dewatering
24	3	Coal washing efficiency
25	3	Coal washing practice in India
26	3	Recent development in coal processing
27	3	Ultrasonic grinding
28	3	Flotation
29	3	Electrostatic separation
30	3	Chemical beneficiation
31	3	High gradient magnetic separation
32	4	Coal utilization
33	4	Carbonization
34	4	Coking mechanism
35	4	Selection of coal for metallurgical coke
36	4	Combustion
37	4	Gasification
38	4	Types of gasifiers
39	4	Liquefaction
40	4	production of liquid fuels

Signature of the Faculty Member:

Date:

Counter Signature of H.O.D

Signature of the Faculty Member:  
Date:

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