VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA

LESSON PLAN

Semester: 7th **Subject:** Coal Processing Technology (Theory)

Branch: Chemical Engineering

Name of the Faculty Member: Veda Prakash

Period	Module/Number	Topic to be covered
1	01	Role of coal in the overall energy situation
2	01	Recent advances in coal preparation methods
3	01	-do-
4	01	-do-
5	01	-do-
6	01	Fine coal treatment
7	01	-do-
8	02	-do-
9	02	Simulation and modeling of coal beneficiation circuits;
10	02	-do-
11	02	-do-
12	02	-do-
13	02	Thermodynamics and kinetics of coal gasification reactions;
14	02	-do-
15	02	-do-
16	03	Fluidized bed coal gasification processes;
17	03	-do-
18	03	Combined cycle power generation;
19	03	-do-
20	03	-do-
21	03	Coal liquefaction:
22	03	-do-
23	03	-do-
24	03	Various methods, kinetics of solvent extraction,
25	03	-do-
26	04	-do-
27	04	-do-
28	04	Catalytic hydrogenation and other liquefaction processes;
29	04	-do-
30	04	-do-
31	04	-do-
32	04	Concept of coal refinery and coalplex;
33	04	-do-
34	04	Environmental impact analysis of coal utilization methods such as carbonization, gasification, etc.
35	04	-do-