

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Chemical Engineering - NOC:Waste to Energy Conversion

Subject Co-ordinator - Prof. P. Mondal

Co-ordinating Institute - IIT - Roorkee

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction - 1
Lecture 2 - Introduction - 2
Lecture 3 - Characterization of wastes - 1
Lecture 4 - Characterization of wastes - 2
Lecture 5 - Characterization of wastes - 3
Lecture 6 - Tutorial on Characterization of wastes
Lecture 7 - Energy production from wastes through incineration - 1
Lecture 8 - Energy production from wastes through incineration - 2
Lecture 9 - Tutorial on incineration
Lecture 10 - Energy production from wastes through gasification - 1
Lecture 11 - Energy production from wastes through gasification - 2
Lecture 12 - Syngas utilization - 1
Lecture 13 - Syngas utilization - 2
Lecture 14 - Energy production from wastes through pyrolysis - 1
Lecture 15 - Energy production from wastes through pyrolysis - 2
Lecture 16 - Tutorial on gasification
Lecture 17 - Tutorial on Pyrolysis
Lecture 18 - Densification of solids - 1
Lecture 19 - Densification of solids - 2
Lecture 20 - Efficiency improvement of power plant - 1
Lecture 21 - Efficiency improvement of power plant - 2
Lecture 22 - Energy production from waste plastics - 1
Lecture 23 - Energy production from waste plastics - 2
Lecture 24 - Gas clean up - 1
Lecture 25 - Gas clean up - 2
Lecture 26 - Energy production from organic wastes through anaerobic digestion - 1
Lecture 27 - Energy production from organic wastes through anaerobic digestion - 2
Lecture 28 - Design of anaerobic digester
Lecture 29 - Introduction to Microbial fuel cells

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- Lecture 30 - Energy production from organic wastes through fermentation - 1
- Lecture 31 - Energy production from organic wastes through fermentation - 2
- Lecture 32 - Tutorial on anaerobic digestion
- Lecture 33 - Tutorial on fermentation
- Lecture 34 - Energy production from wastes through transesterification - 1
- Lecture 35 - Energy production from wastes through transesterification - 2
- Lecture 36 - Tutorial on transesterification
- Lecture 37 - Cultivation of algal biomass and treatment of waste water - 1
- Lecture 38 - Cultivation of algal biomass and treatment of waste water - 2
- Lecture 39 - Energy production form algal biomass - 1
- Lecture 40 - Energy production form algal biomass - 2