

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

NPTEL Video Course - Chemical Engineering - NOC:Energy Conversion Technologies (Biomass and Coal)

Subject Co-ordinator - Prof. Vaibhav V. Goud

Co-ordinating Institute - IIT - Guwahati

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

- Lecture 1 - Sources of energy
- Lecture 2 - Sources of energy
- Lecture 3 - Energy scenario
- Lecture 4 - Environmental aspects of energy
- Lecture 5 - Environmental aspects of energy
- Lecture 6 - Environmental aspects of energy
- Lecture 7 - Environmental aspects of energy
- Lecture 8 - Solid fuels - Part I
- Lecture 9 - Solid fuels - Part II
- Lecture 10 - Liquid fuels - Part I
- Lecture 11 - Liquid fuels - Part II
- Lecture 12 - Practice problems - Part I
- Lecture 13 - Practice problems - Part II
- Lecture 14 - Energy from Bio-based Feedstock
- Lecture 15 - Thermal/Thermochemical processes
- Lecture 16 - Practice problems (Pelletization)
- Lecture 17 - Practice problems (Torrefaction Mass and Energy Yield)
- Lecture 18 - Pyrolysis and Hydrothermal Liquefaction
- Lecture 19 - Gasification
- Lecture 20 - Practice examples (Pyrolysis, Gasification)
- Lecture 21 - Biochemical conversion processes - Anaerobic Digestion in Landfills
- Lecture 22 - Bioethanol Production
- Lecture 23 - Practice examples (Biogas and Bio-ethanol production)
- Lecture 24 - Chemical Conversion Processes - Types of Feedstock and Pretreatment
- Lecture 25 - Mechanism of trans-esterification and biodiesel production
- Lecture 26 - Green diesel synthesis from bio-based feedstocks
- Lecture 27 - Energy from Coal (Carbonization, Gasification and Liquefaction)
- Lecture 28 - Practice Example (Combustion of Biomass and Coal)
- Lecture 29 - Combustion Process (Biomass and Coal)

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Lecture 30 - Concept of integration of energy system