

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

NPTEL Video Course - Civil Engineering - NOC:Municipal Solid Waste Management

Subject Co-ordinator - Prof. Ajay Kalamdhad

Co-ordinating Institute - IIT - Guwahati

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

Lecture 1 - Introduction to solid waste
Lecture 2 - Functional elements
Lecture 3 - Types and sources of solid waste
Lecture 4 - Sampling and characteristics
Lecture 5 - Estimation of solid waste quantity
Lecture 6 - Factors affecting solid waste generation rate
Lecture 7 - Handling, separation and storage at source
Lecture 8 - Processing at source
Lecture 9 - Primary collection
Lecture 10 - Types of collection system
Lecture 11 - Analysis of collection system - Part I
Lecture 12 - Analysis of collection system - Part II
Lecture 13 - Analysis of collection system - Part III
Lecture 14 - Need and types of transfer station
Lecture 15 - Transport means and methods
Lecture 16 - Unit operation for component separation
Lecture 17 - Material recovery facilities (MRF)
Lecture 18 - Recycling of dry waste components
Lecture 19 - Waste as a fuel
Lecture 20 - Incineration/Combustion
Lecture 21 - Flue gas characteristics and treatment
Lecture 22 - Solid residue generation, characterization and treatment
Lecture 23 - Waste-to-energy (WtE) plants (case studies) pyrolysis and gasification
Lecture 24 - Definition and phases of composting
Lecture 25 - Factors affecting composting process
Lecture 26 - Types of composting - I
Lecture 27 - Types of composting - II
Lecture 28 - Compost quality
Lecture 29 - Vermicomposting

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- Lecture 30 - Definition, stages and factors affecting anaerobic digestion
- Lecture 31 - Pretreatment and co-digestion for enhancement of biogas production
- Lecture 32 - Types of biogas digesters
- Lecture 33 - Site selection and types of landfill
- Lecture 34 - Leachate collection and treatment
- Lecture 35 - Landfill gas collection and treatment
- Lecture 36 - Design of landfill and Bio-minning of old dumpsite
- Lecture 37 - Construction and demolition waste
- Lecture 38 - Management of bio-medical, e-waste and inert waste
- Lecture 39 - Integrated solid waste management (ISWM)
- Lecture 40 - Municipal solid waste management rules
- Lecture 41 - Financing in MSWM projects
- Lecture 42 - Public-Private-Partnership (PPP)
- Lecture 43 - Public-Private-Partnership (PPP) in MSWM projects