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

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NPTEL Video Course - Multi Disciplinary - NOC: Introduction to Environmental Engineering and Science - Fundame
Subject Co-ordinator - Prof. Brajesh Kumar Dubey
Co-ordinating Institute - IIT - Kharagpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Sustainability Concepts - Innovations and Challenges
Lecture 2 - Sustainability Concepts - Innovations and Challenges
Lecture 3 - Basics and Sustainability Concepts and Evolution
Lecture 4 - Engineering for Sustainability
Lecture 5 - Life Cycle Thinking and Circular Economy
Lecture 6 - Mass Concentration Units
Lecture 7 - Partial Pressure Units
Lecture 8 - Other Types of Units
Lecture 9 - Units (Continued...), Qualitative and Quantitative Measurements
Lecture 10 - Quantative Measurements Basics
Lecture 11 - Ecology
Lecture 12 - Energy Flow and Ecological Concepts
Lecture 13 - Population
Lecture 14 - Population, Consumption and Biodiversity
Lecture 15 - Environmental Chemistry
Lecture 16 - Mass Balance and Reactor Systems
Lecture 17 - Mass Balance in Continuous Reactor / Continuous Stirred Tank Reactor (CSTR) and Plug Flow Reactor
Lecture 18 - Plug Flow Reactor and Energy Flow
Lecture 19 - Energy Balance and Earth Overshot Day
Lecture 20 - Mass Transport Processes
Lecture 21 - Oxygen Demand in Environmental Systems
Lecture 22 - BOD Examples, Oxygen Levels in Surface Waters, COD
Lecture 23 - Environmental Health Basics and SDGs
Lecture 24 - Field Applications
Lecture 25 - Nutrient Cycle
Lecture 26 - Environmental Risk
Lecture 27 - Risk Assessment Steps and EIA Introduction
Lecture 28 - Environmental Risk Assessments with Concepts of EIA and LCA
Lecture 29 - Environmental Risk Assessments with Concepts of EIA and LCA (Continued...)
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Lecture 30 - Environmental Risk Assessments with Concepts of EIA and LCA (Continued...)
Lecture 31 - Water Quantity
Lecture 32 - Water Availability and Usage
Lecture 33 - Population Forecasting
Lecture 34 - Water Quality
Lecture 35 - Water Quality (Continued...)
Lecture 36 - Plain Sedimentation
Lecture 37 - Coagulation
Lecture 38 - Review of Sedimentation and Rapid Sand Filtration
Lecture 39 - Disinfection and Water Supply
Lecture 40 - Water Treatment Plant Visit
Lecture 41 - Wastewater collection and characterization
Lecture 42 - Sewerage System and Sewage Characteristics
Lecture 43 - BOD Concepts and Preliminary Treatment of Wastewater
Lecture 44 - Wastewater Treatment - I
Lecture 45 - Activated Sludge Process and Sludge Disposal
Lecture 46 - Introduction to Solid Waste Management
Lecture 47 - Introduction to Solid Waste Management (Continued...)
Lecture 48 - Components of Solid Waste Management
Lecture 49 - Collection and Treatment
Lecture 50 - Waste Disposal and Summary
Lecture 51 - Basics of Air Pollution Issues - Global and Local
Lecture 52 - Air Pollutants and Air Pollution Index
Lecture 53 - Global Warming and Climate Change
Lecture 54 - Air Pollution Models
Lecture 55 - SDGs, Noise and Soil Pollution
Lecture 56 - Present Issues and Few Case Studies
Lecture 57 - Case Study - Solid Waste Management
Lecture 58 - Case Study - Industrial Pollution and Disasters
Lecture 59 - Case Study - Global Food Waste Initiatives
Lecture 60 - Case Study - Global Food Waste and Resource Recovery
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