

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

NPTEL Video Course - Civil Engineering - NOC:Air Pollution and Control

Subject Co-ordinator - Prof. Bhola Ram Gurjar

Co-ordinating Institute - IIT - Roorkee

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

- Lecture 1 - Introduction to Air Pollution - I
- Lecture 2 - Introduction to Air Pollution - II
- Lecture 3 - Impact of Air Pollution on Human Health
- Lecture 4 - Impact of Air Pollution on Vegetation and Animals
- Lecture 5 - Impact of Air Pollution on Building Materials and Structures
- Lecture 6 - Impact of Air Pollution on Atmosphere, Soil and Water Bodies
- Lecture 7 - Sources and Classification of Air Pollutants
- Lecture 8 - Atmospheric Formation and Fate of Air Pollutants
- Lecture 9 - Meteorological Parameters and Air Pollution
- Lecture 10 - Atmospheric Stability and Lapse Rates
- Lecture 11 - Atmospheric Stability and Plume Behaviour
- Lecture 12 - Boundary Layer, Mixing Height, Stack Height and Plume Rise
- Lecture 13 - Status of Air Quality Monitoring in India
- Lecture 14 - Air Quality Index (AQI)
- Lecture 15 - Introduction to Air Quality Modelling
- Lecture 16 - Gaussian Dispersion Model for Point Source
- Lecture 17 - Gaussian Dispersion Model for Line Source and Area Source
- Lecture 18 - Determination of Concentration of Pollutants using Gaussian Dispersion Model
- Lecture 19 - Assimilative Capacity of an Airshed
- Lecture 20 - Emission Inventory
- Lecture 21 - Transport Emission Inventory
- Lecture 22 - Emission Inventory for Industrial Sector
- Lecture 23 - Emission Inventory for Agriculture Sector
- Lecture 24 - Emission Inventory for Residential and Commercial Sectors
- Lecture 25 - Application of Remote Sensing/Satellite-Based Data in Air Quality Management
- Lecture 26 - Emission Inventory: Case Study
- Lecture 27 - Methods of Source Apportionment
- Lecture 28 - Source apportionment using Receptor Modeling
- Lecture 29 - Indoor Air Quality: An Introduction

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- Lecture 30 - Specific Sources and Types of Indoor Air Pollutants
- Lecture 31 - Health Impacts Due to Indoor Air Pollution
- Lecture 32 - Assessment of Exposure to Indoor Air Pollution
- Lecture 33 - Indoor Air Quality Modelling
- Lecture 34 - Technologies to Mitigate Indoor Air Pollution
- Lecture 35 - Personal Exposure to Fine Particles: A Case Study
- Lecture 36 - Indoor Air Quality in Nursery Buildings, UAE â Case Study
- Lecture 37 - Global and Regional Environmental Issues - Ozone Depletion
- Lecture 38 - Global and Regional Environmental Issues - Global Warming
- Lecture 39 - Global and Regional Environmental Issues - Climate Change
- Lecture 40 - Global and Regional Environmental Issues - Acid Rain
- Lecture 41 - Introduction to Air Pollution Control
- Lecture 42 - Air Pollution Control Devices - Part 1
- Lecture 43 - Air Pollution Control Devices - Part 2
- Lecture 44 - Air Pollution Control Devices - Part 3
- Lecture 45 - Air Pollution Control Devices - Part 4
- Lecture 46 - Tutorial-II - Practice Examples on Particulate Emission Control Devices
- Lecture 47 - Tutorial-III - Practice Examples on Gaseous Emission Control Devices
- Lecture 48 - Air Quality Standards
- Lecture 49 - Air Pollution Legislations and Regulations
- Lecture 50 - National Policies for Managing the Ambient Air Quality (AAQ)
- Lecture 51 - International Environmental Treaties to Reduce Air Pollution and GHG Emissions
- Lecture 52 - Impact of Lockdown on Air Quality
- Lecture 53 - Sector Wise Mitigation Measures to Control Air Pollution
- Lecture 54 - Challenges and the Way Forward
- Lecture 55 - Sampling and Analysis of PM10 in Ambient Air
- Lecture 56 - Sampling and Analysis of PM2.5 in Ambient Air
- Lecture 57 - Sampling and Analysis of SO2 and NO2 in Ambient Air
- Lecture 58 - Stack Emission Monitoring using Isokinetic Sampling
- Lecture 59 - Indoor Air Quality Assessment using Multi Gas Monitor
- Lecture 60 - Sampling and Analysis of PM10 and PM2.5 using Spectrometer